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THE POTOMAC

OR

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BY

WILLIAM MORRIS FONTAINE



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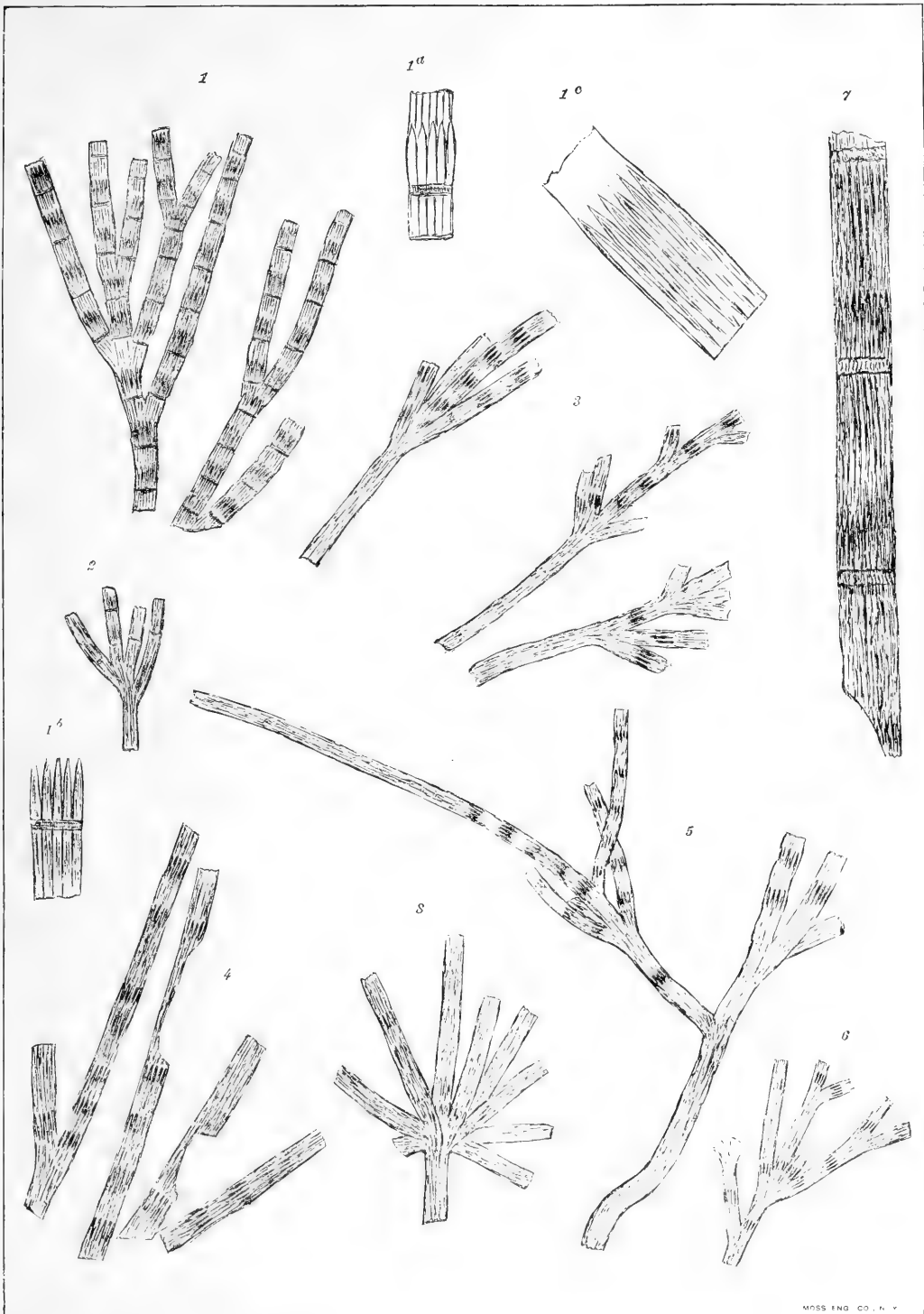


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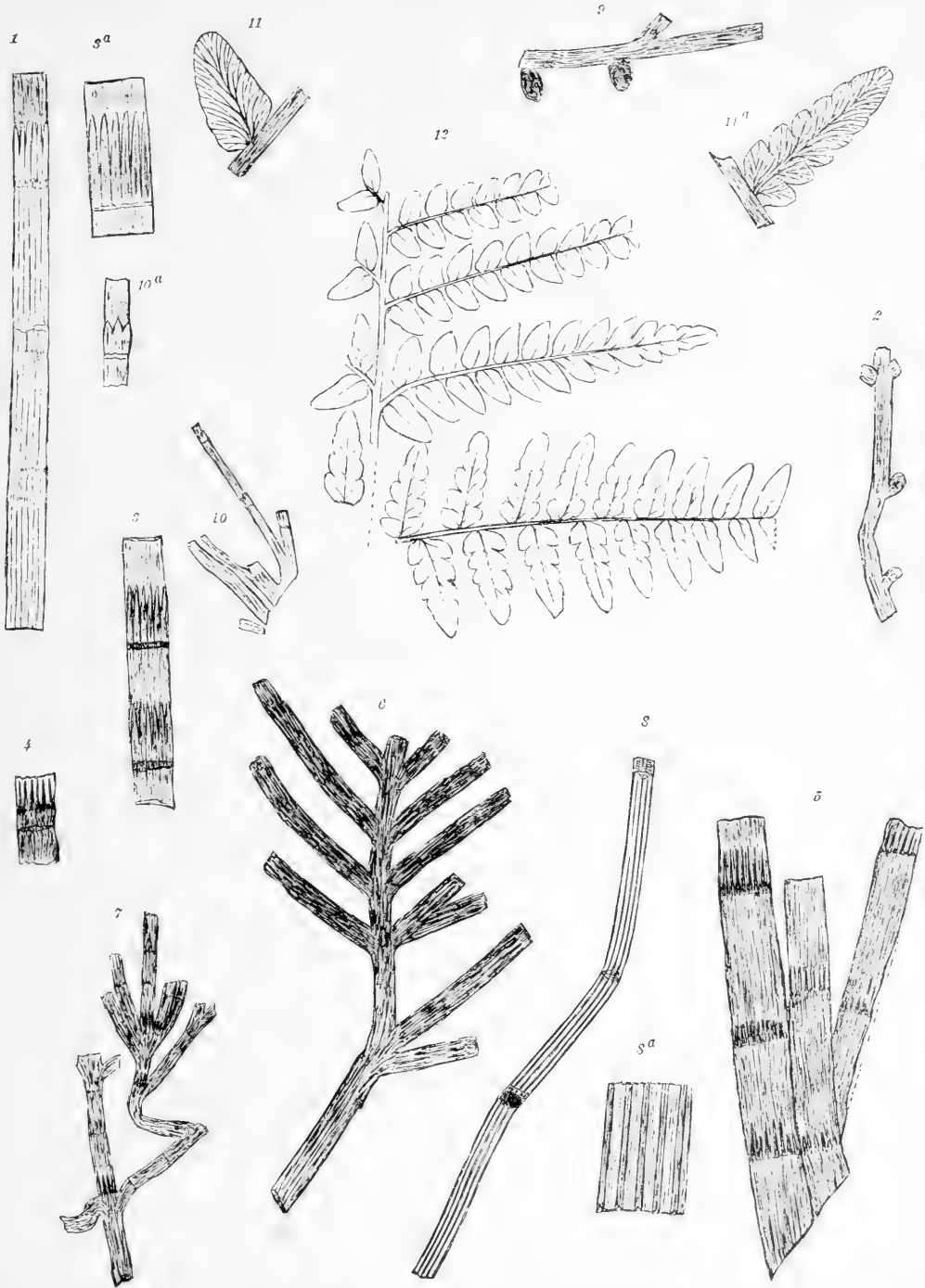


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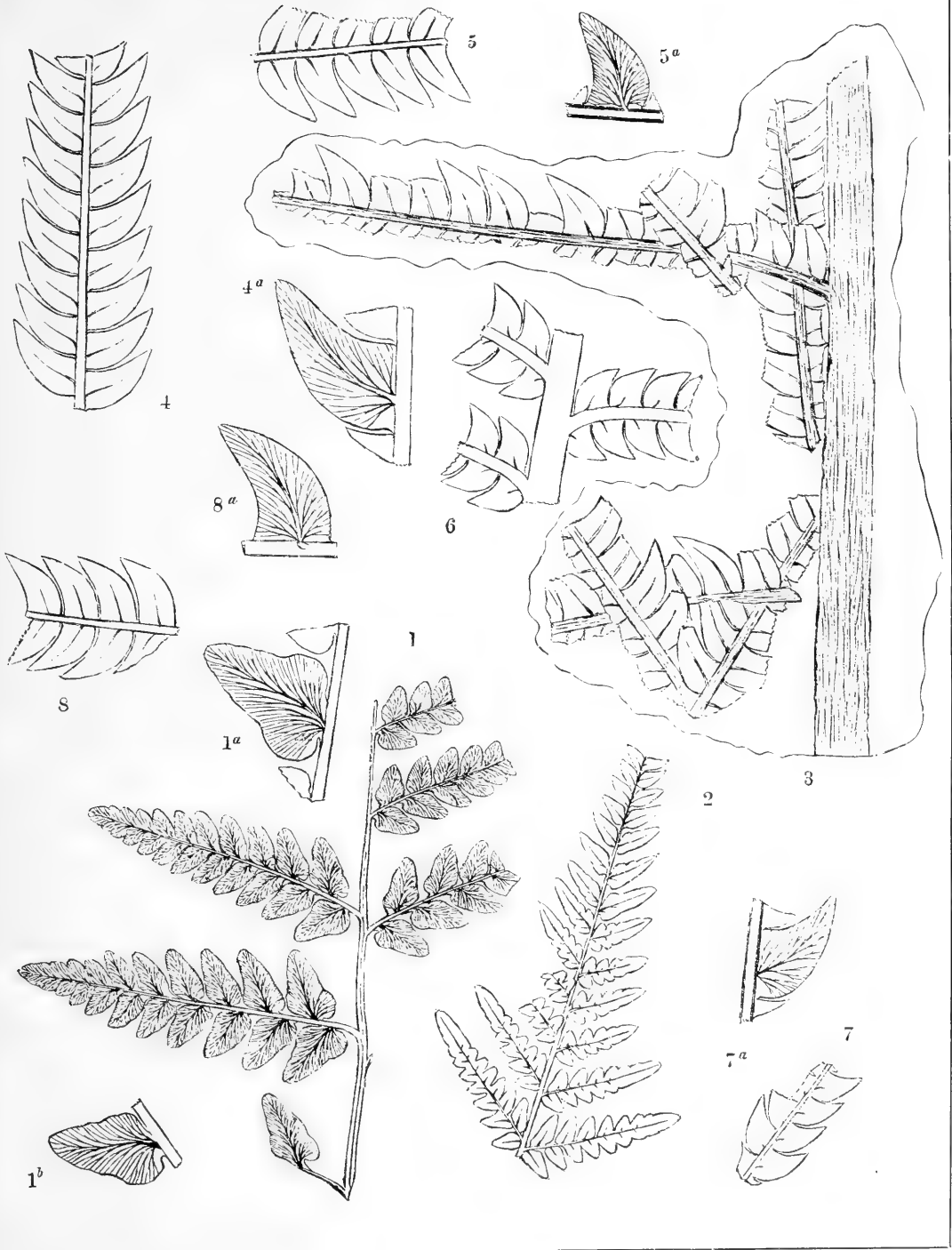
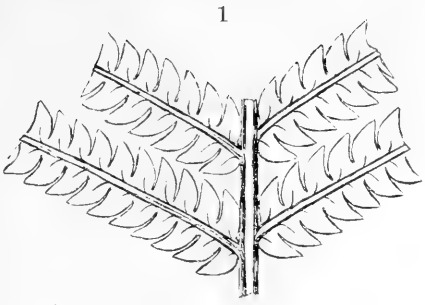


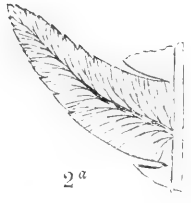
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1



2^a



2

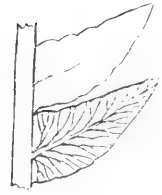
1^a



5



7



3^a

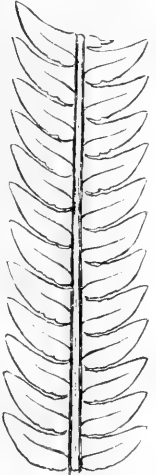


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8^a



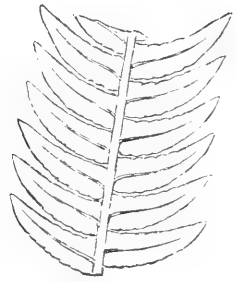
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7^a

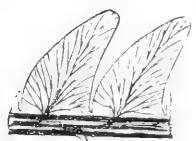


4^b



8

4^a



4

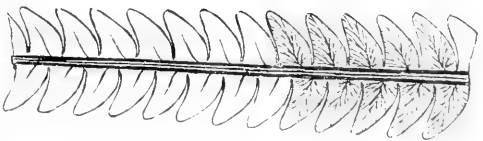


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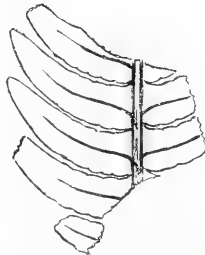
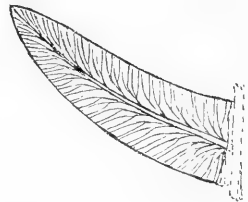
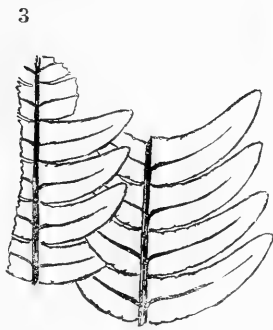
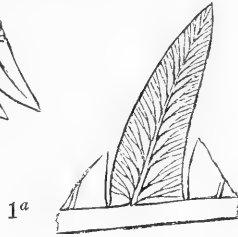
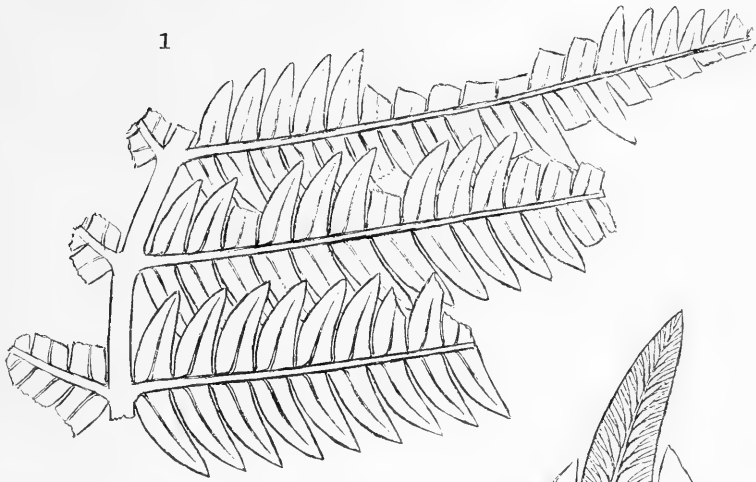


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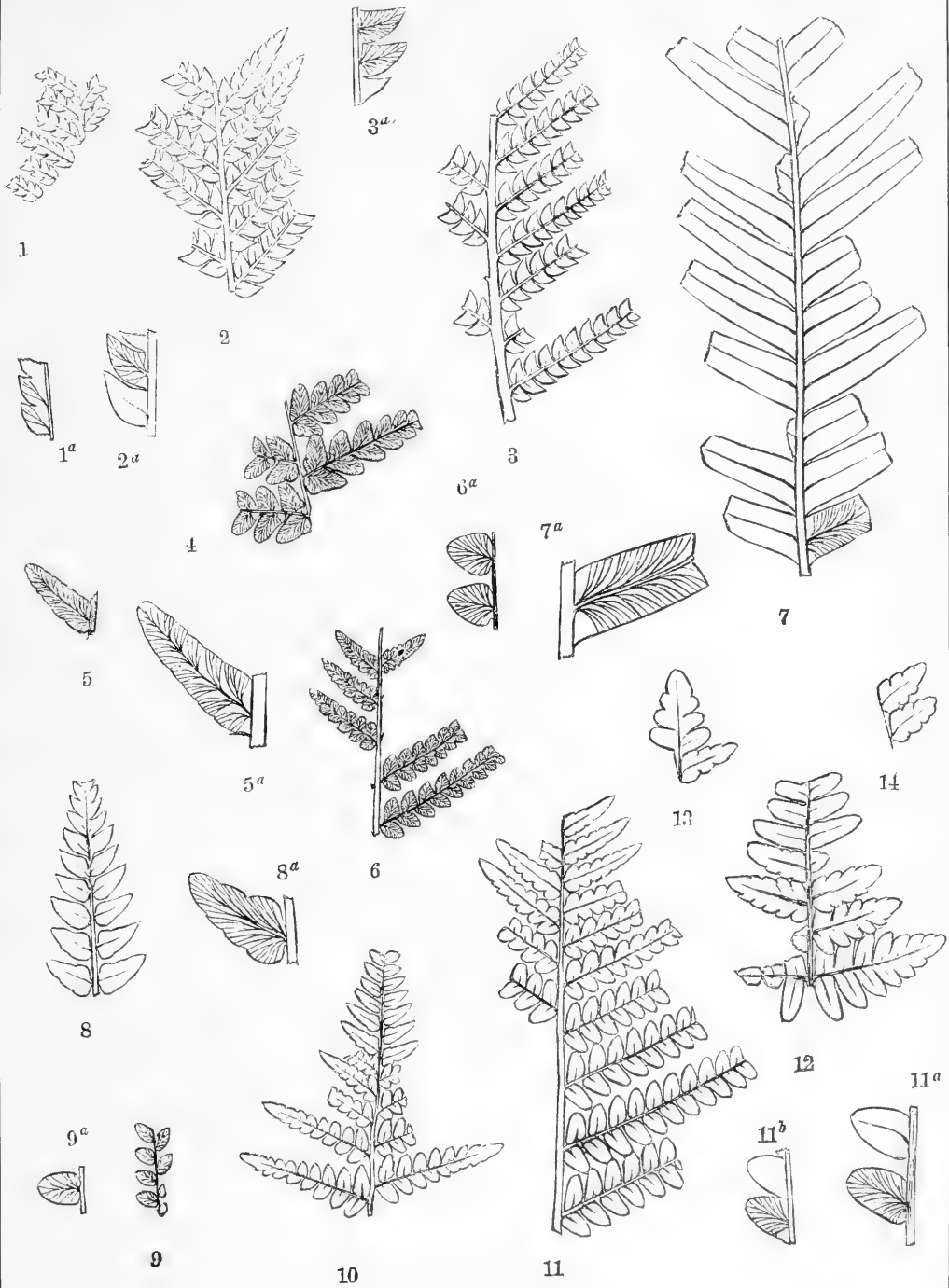
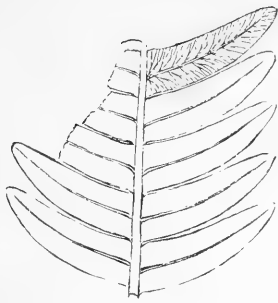


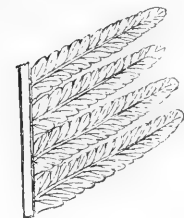
PLATE VII.

PLATE VII.

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1



5



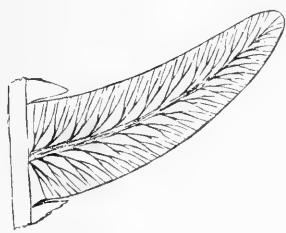
5^a



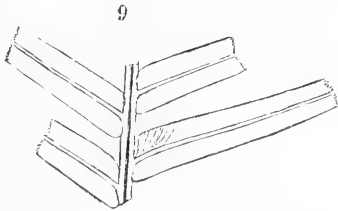
11



3



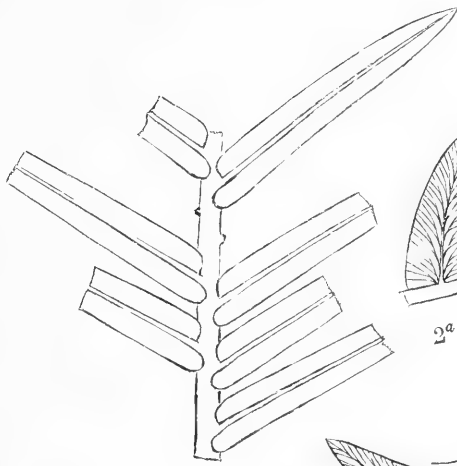
1^a



9



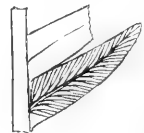
10^b



8



2^a



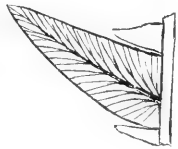
3^a



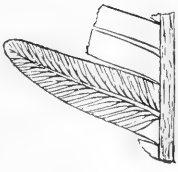
10



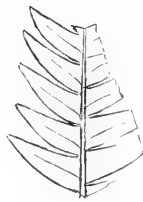
10^a



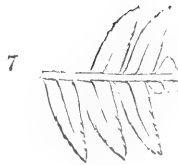
6^a



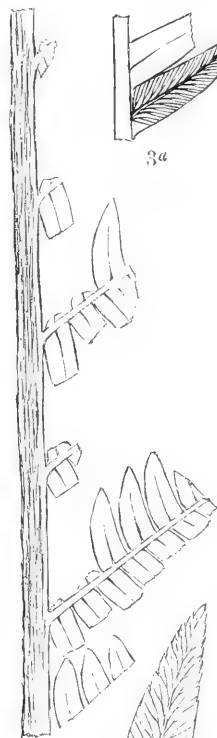
4



6



7



2



7^a



PLATE VIII.

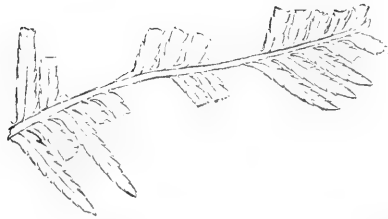
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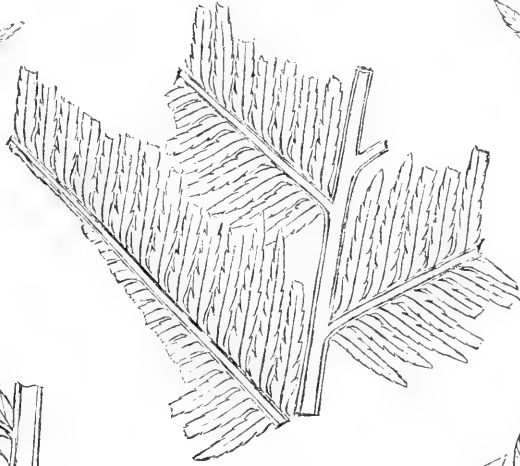


1

4



3



2

3^a



2^a

7



1^a



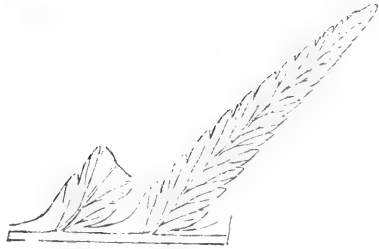
2^b



5



7^a



6

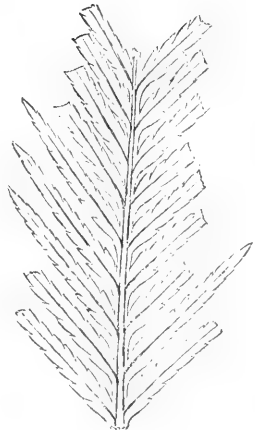




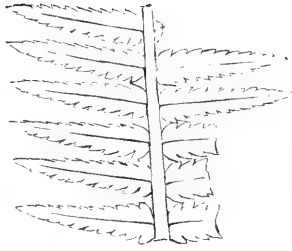
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PLATE IX.

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1



2



2^a



3



1^a



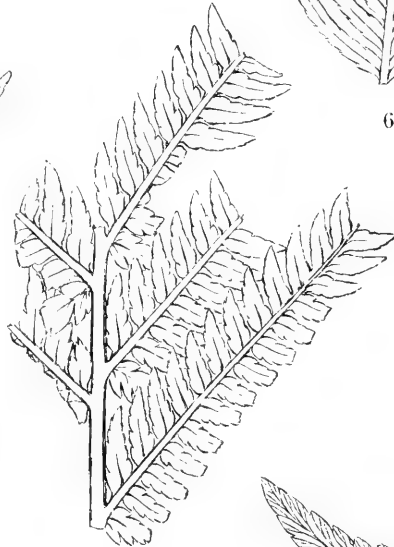
6



5



4



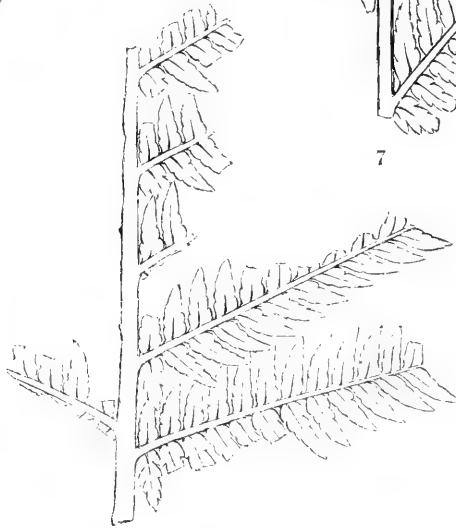
7



7^a



8^a



8



9



PLATE X.

PLATE X.

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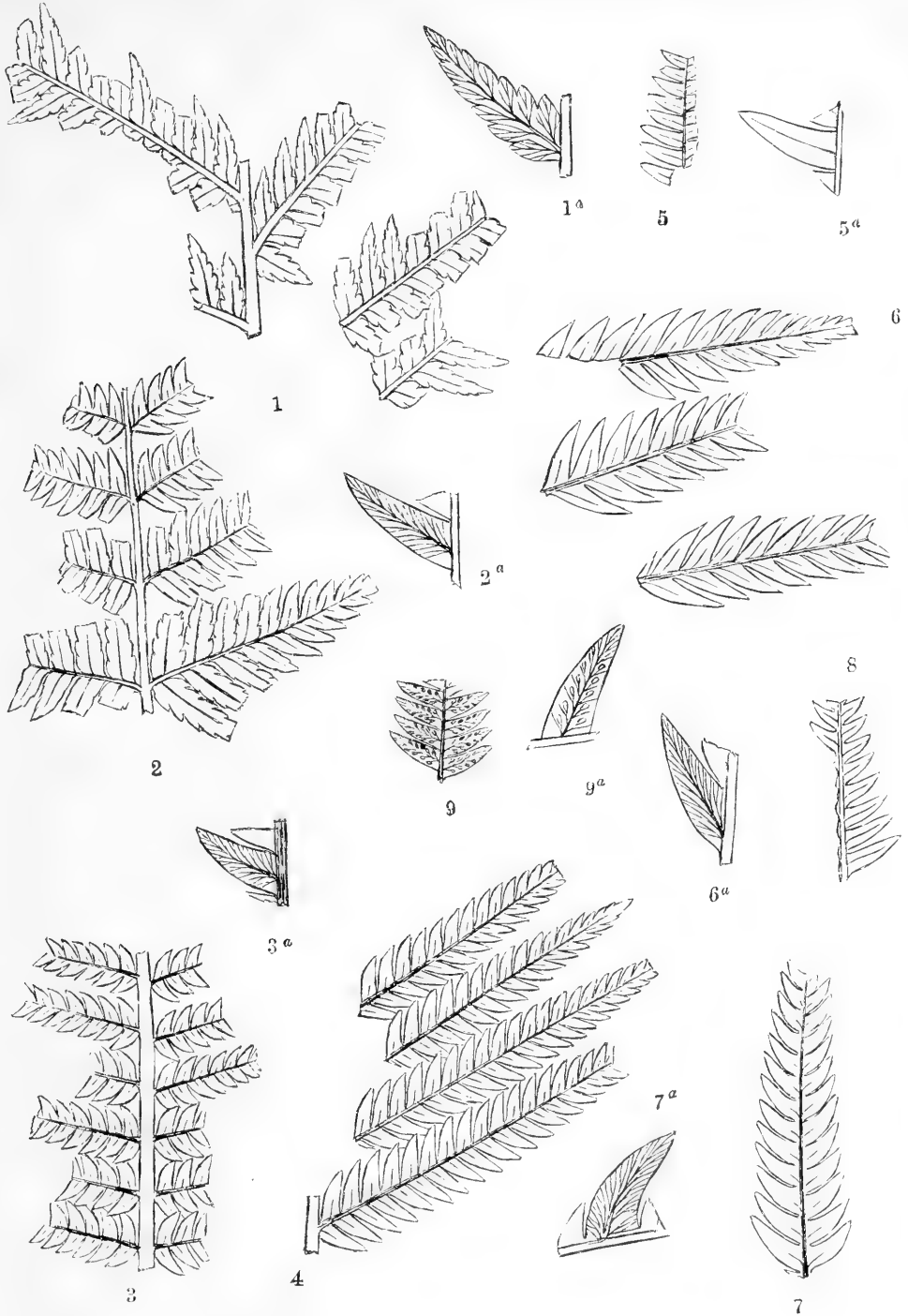


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P L A T E X I .

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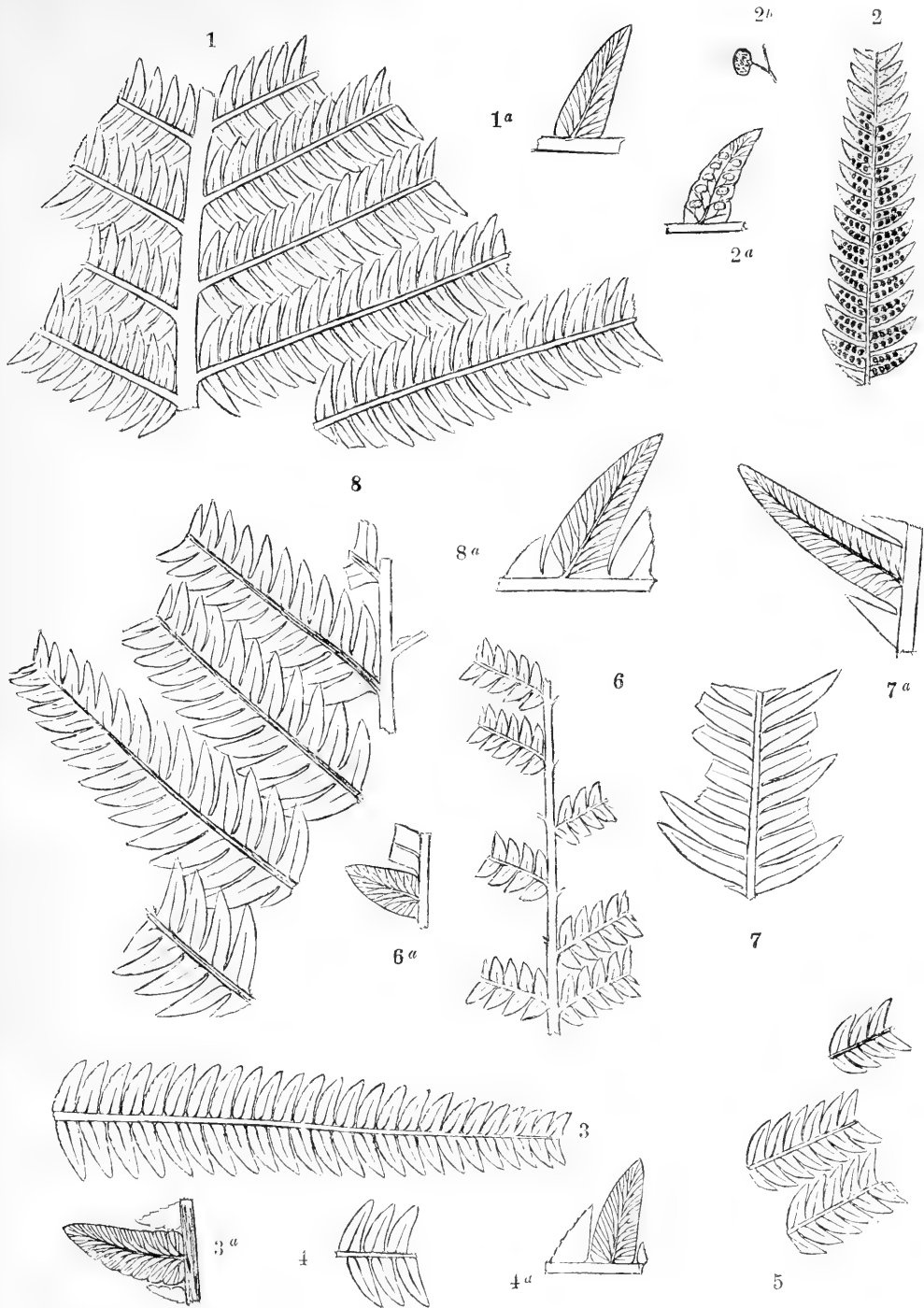


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P L A T E X I I .

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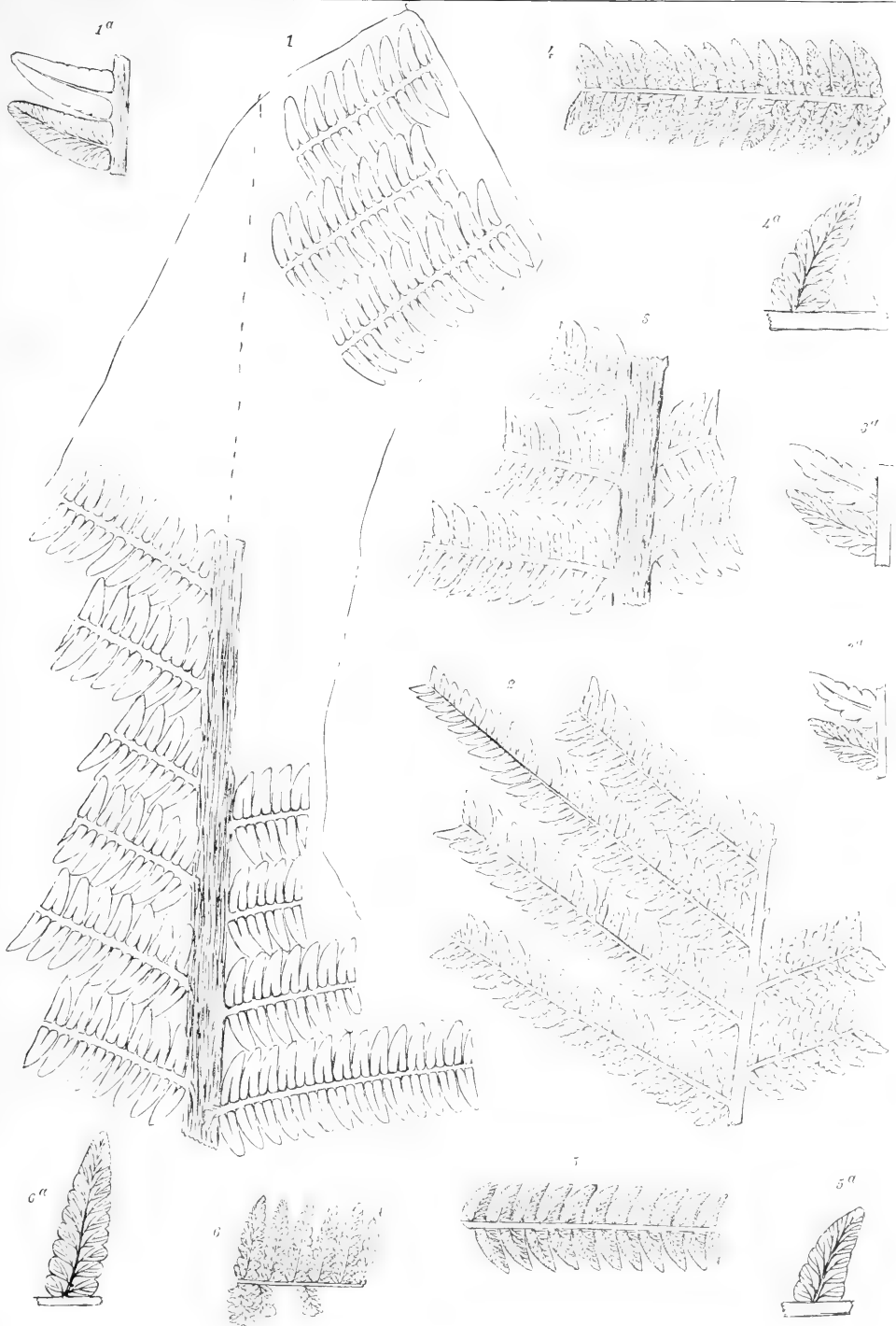


PLATE XIII.

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10. Portion of a pinna of probably the same plant as 9, probably the upper part, from bank near Brooke.	95

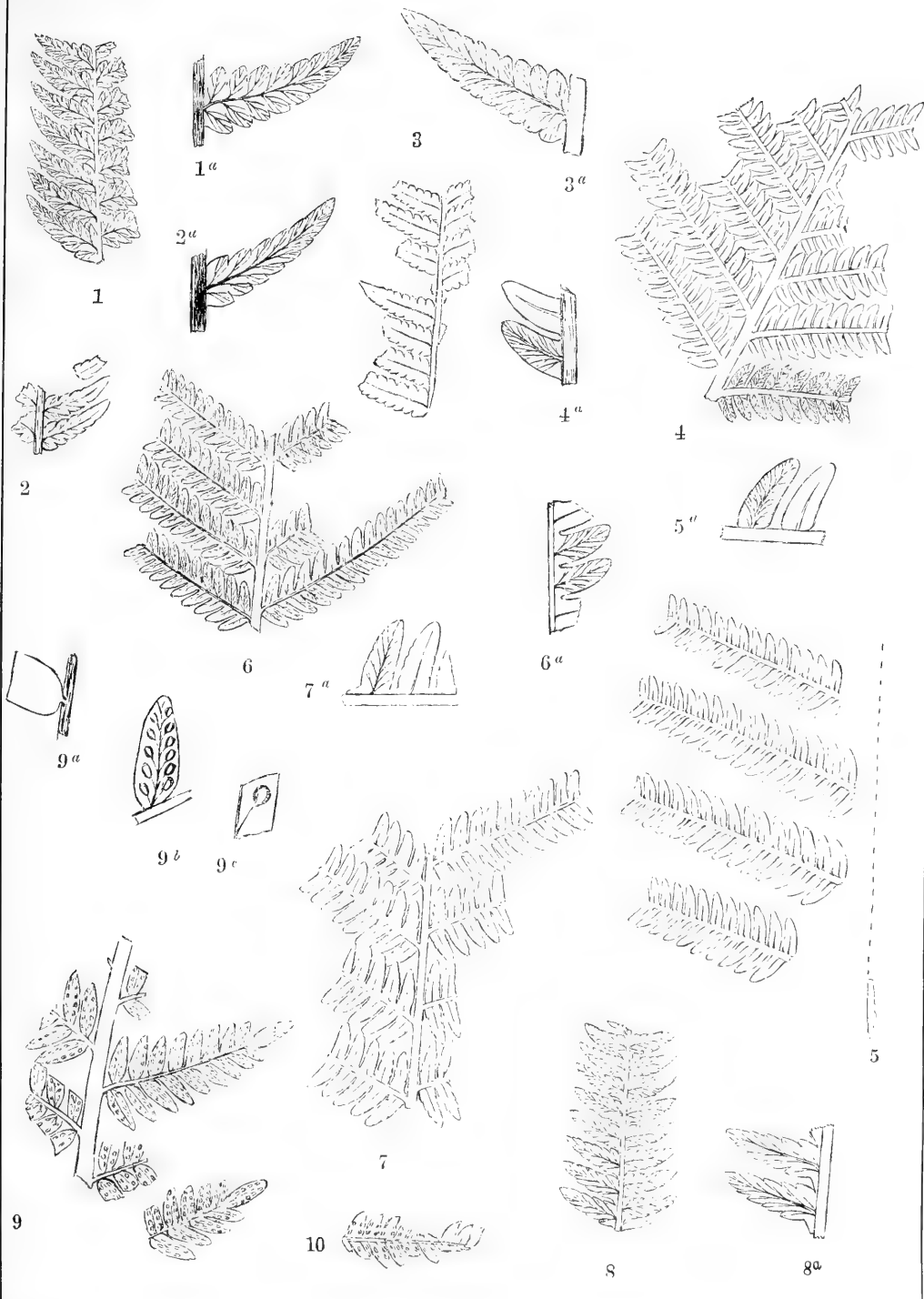


PLATE XIV.

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4. Portion of an ultimate pinna	96
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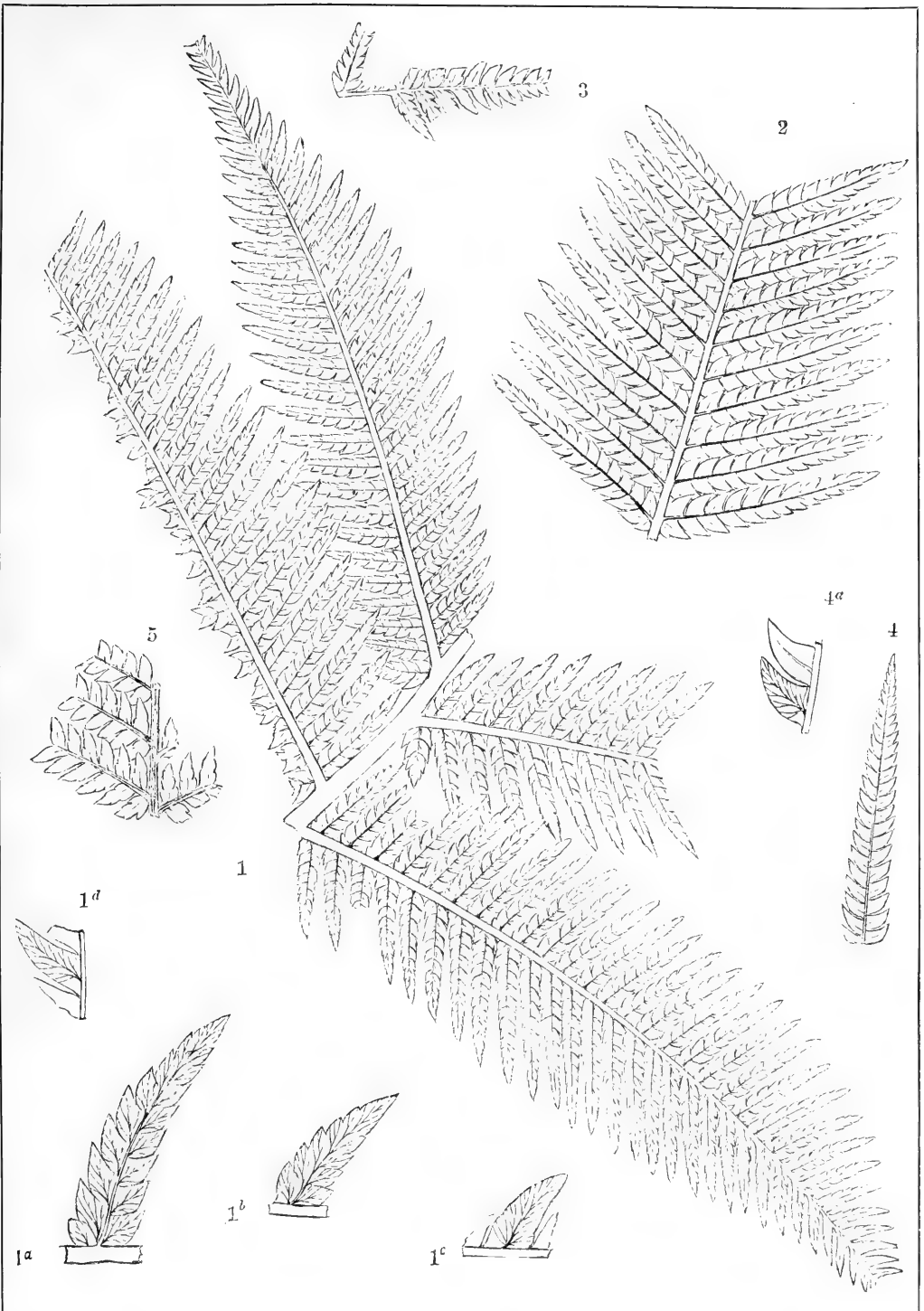




PLATE XV.

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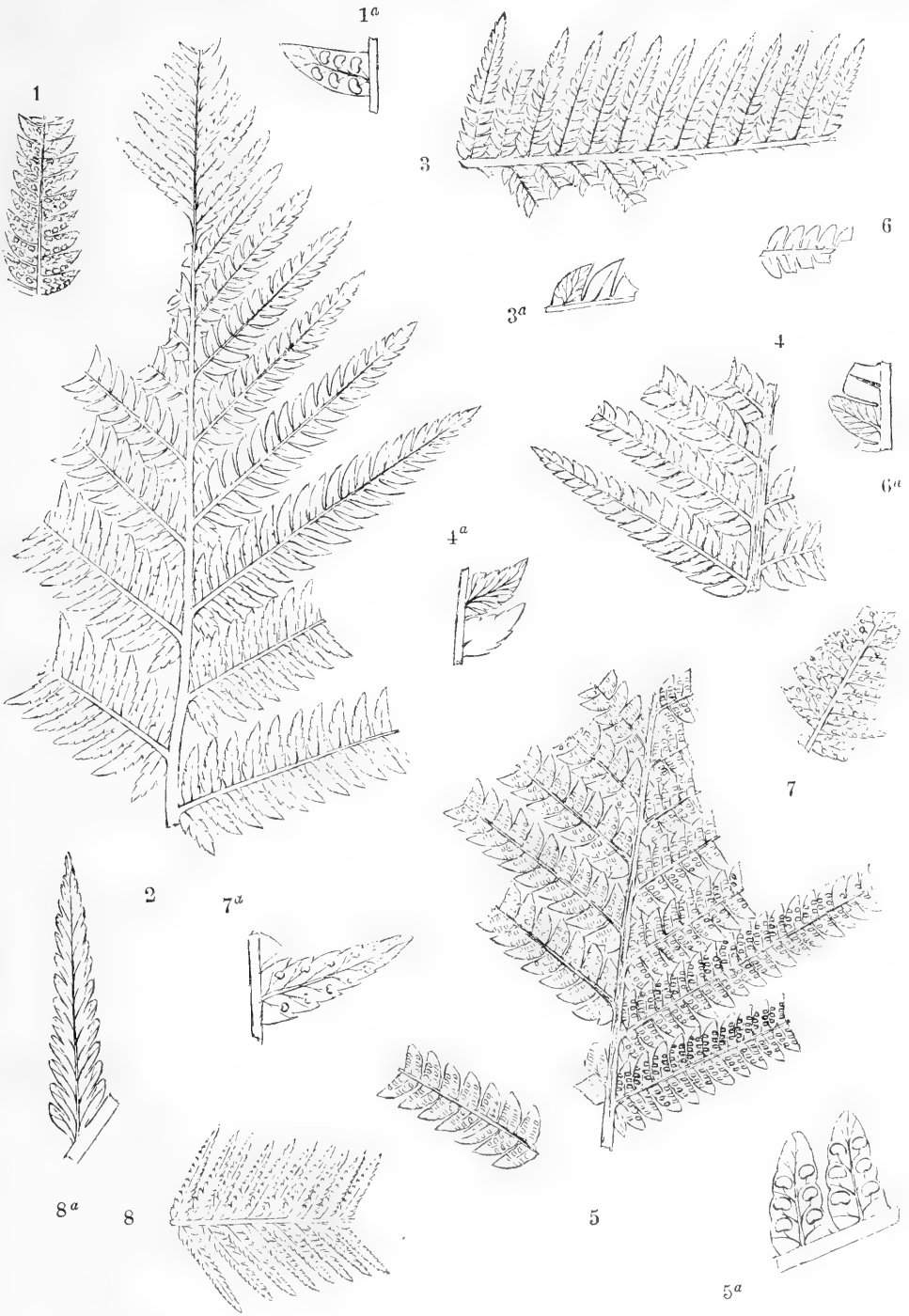




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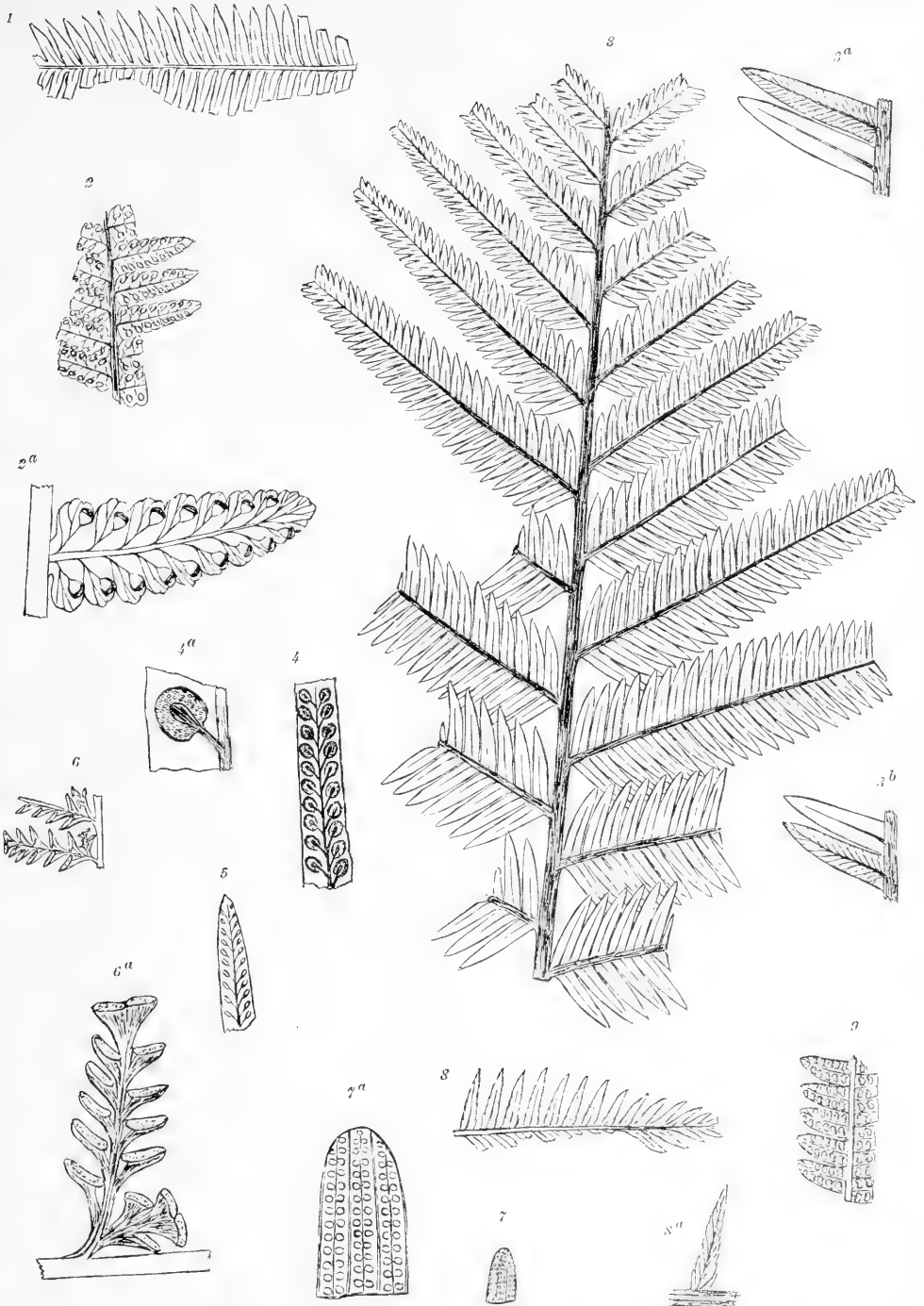


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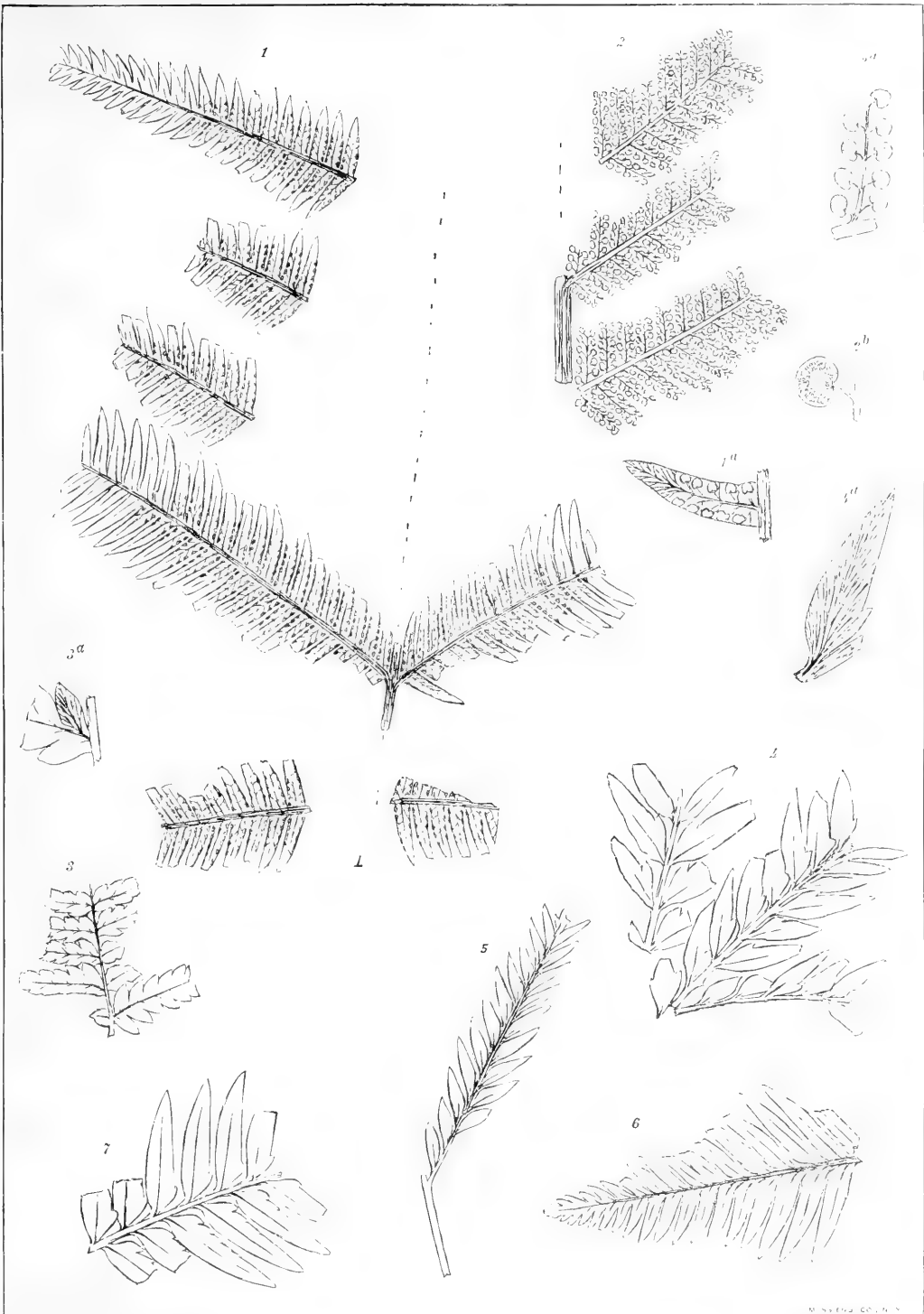


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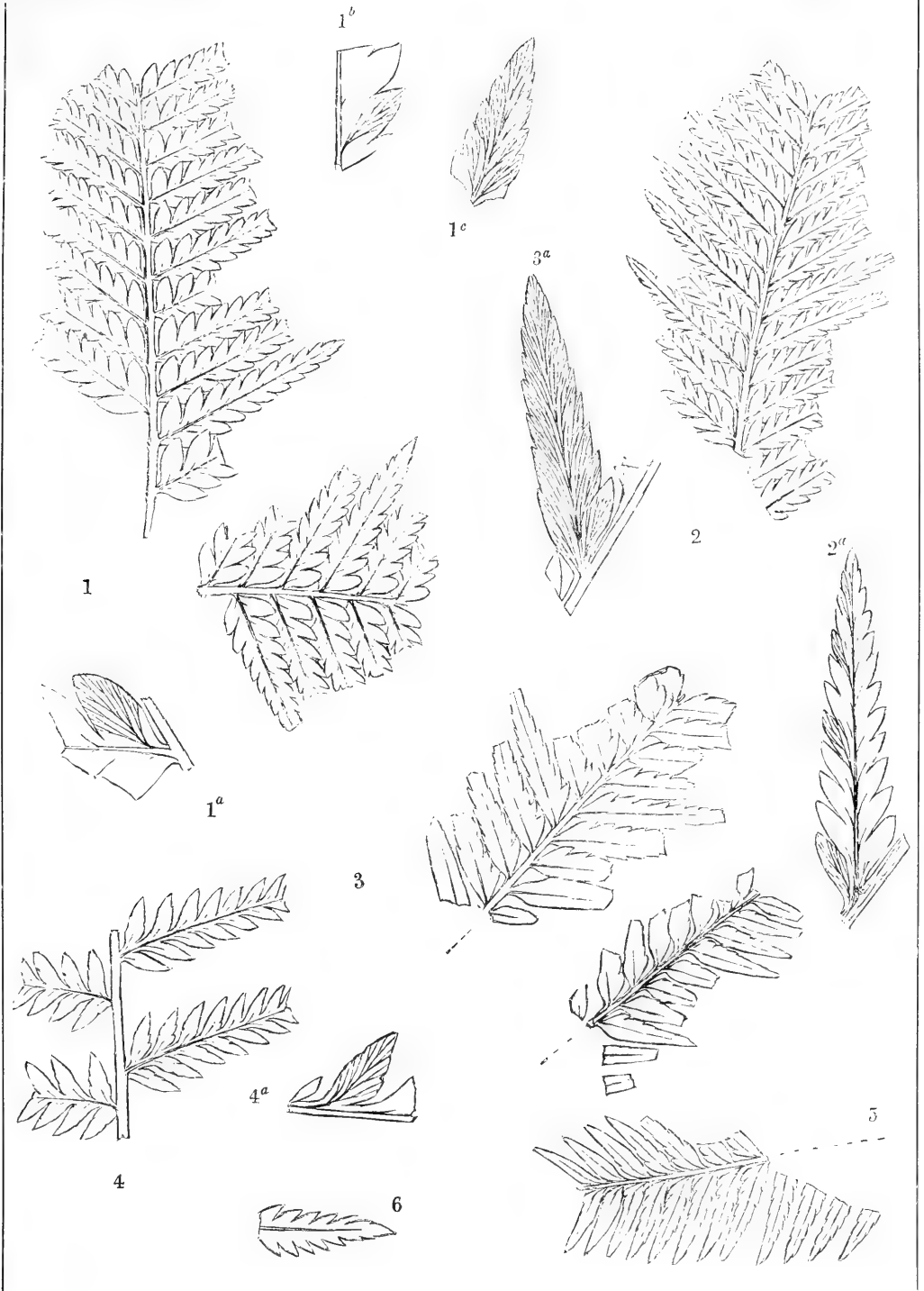


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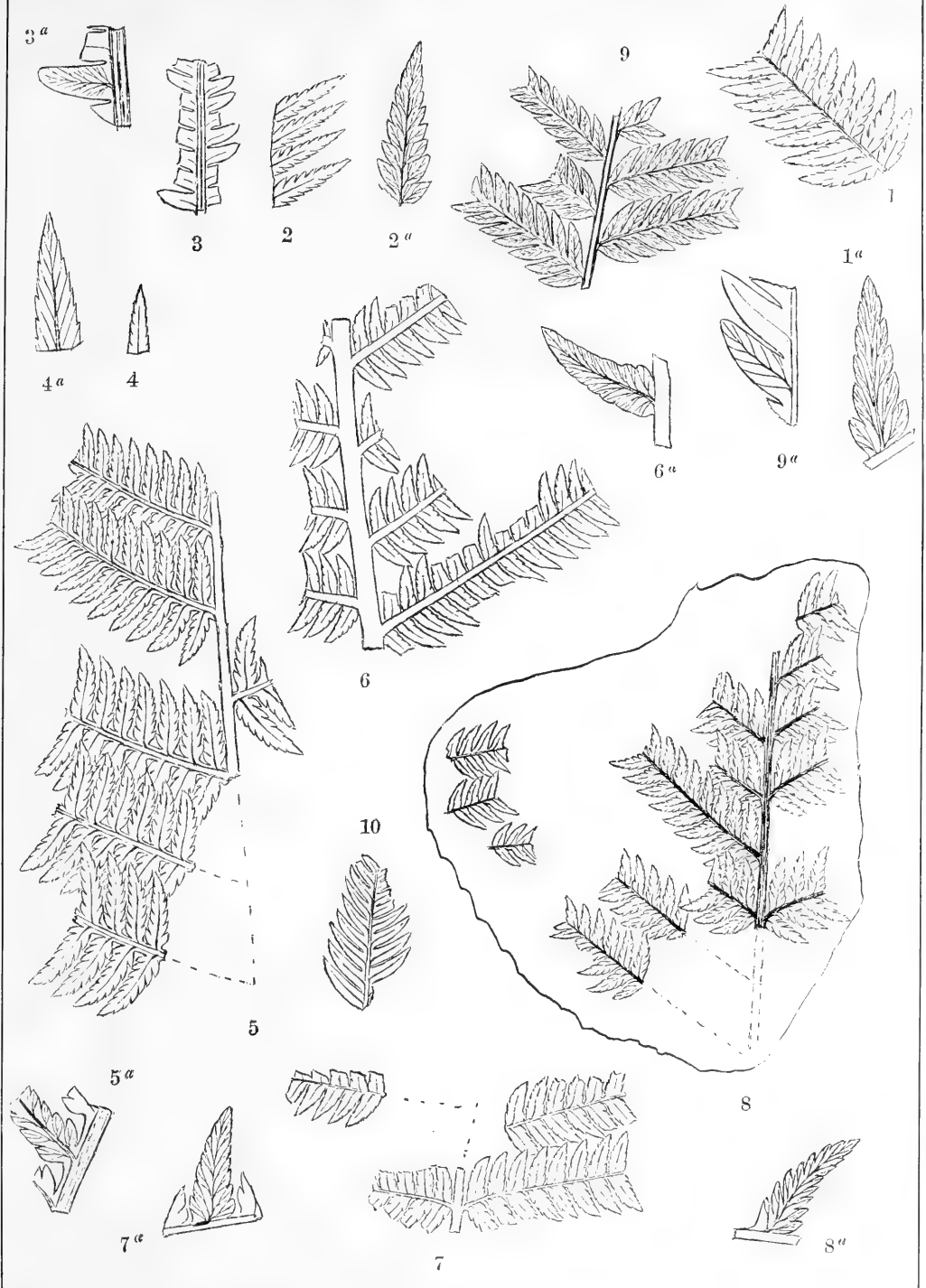


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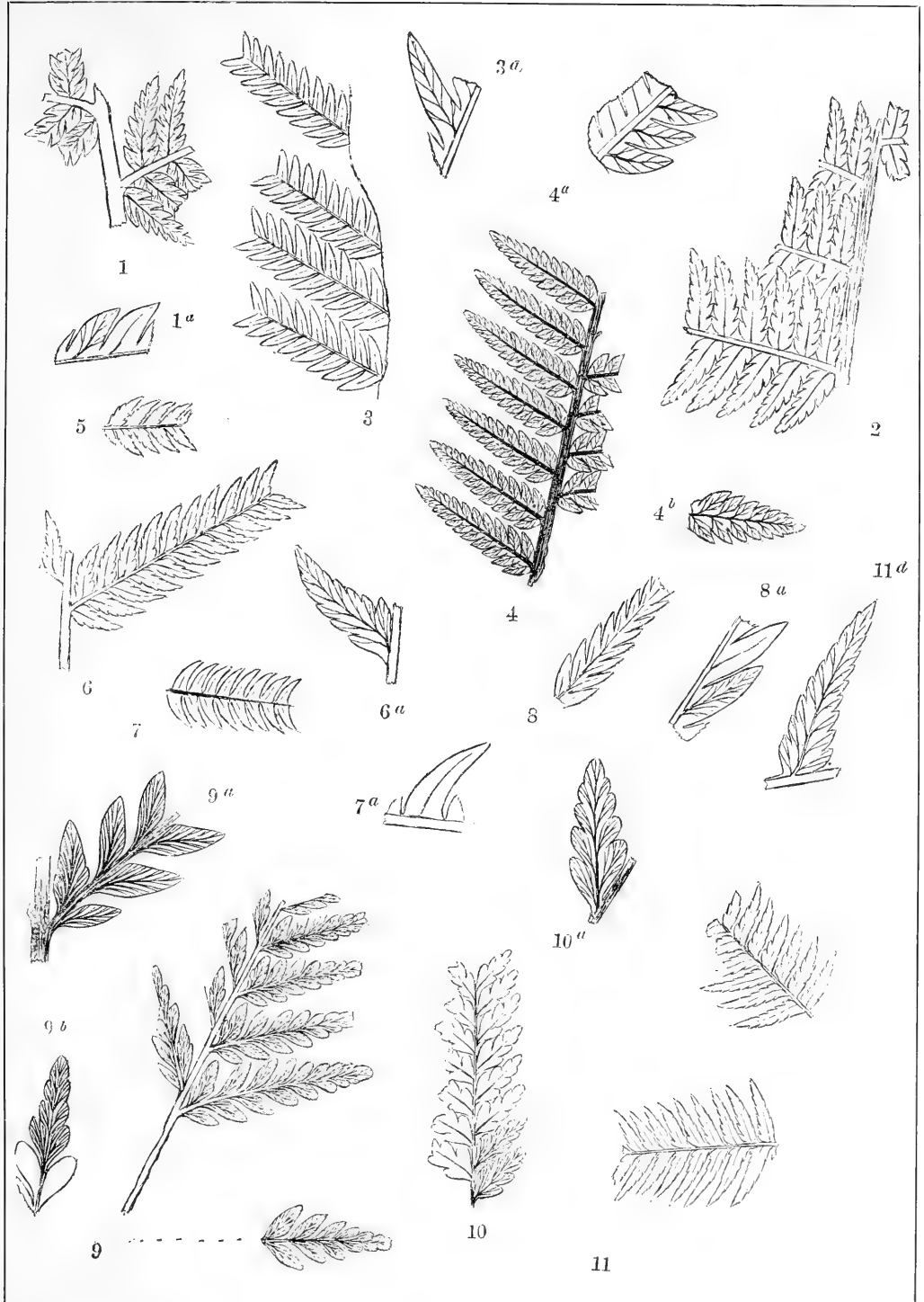


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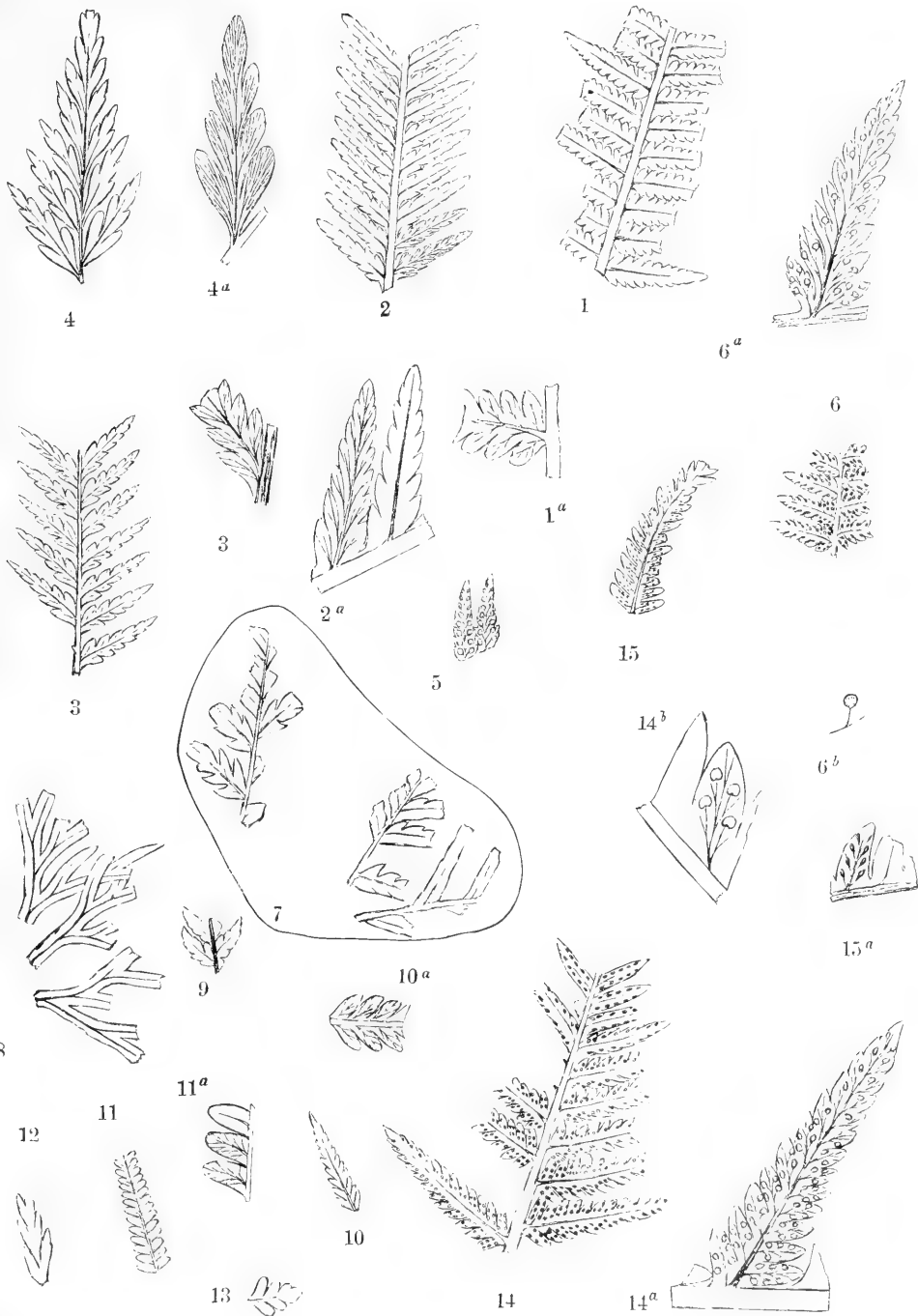


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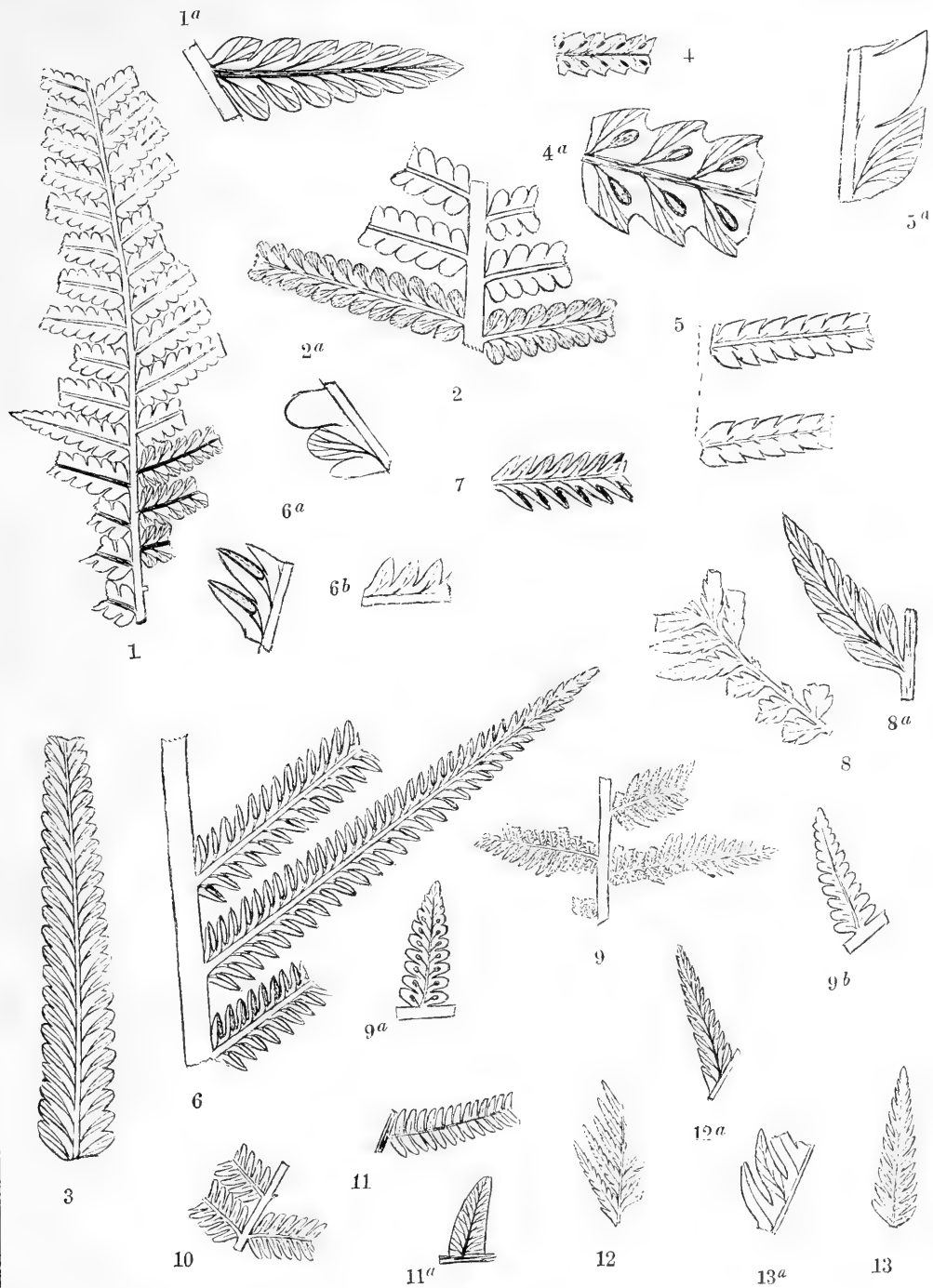


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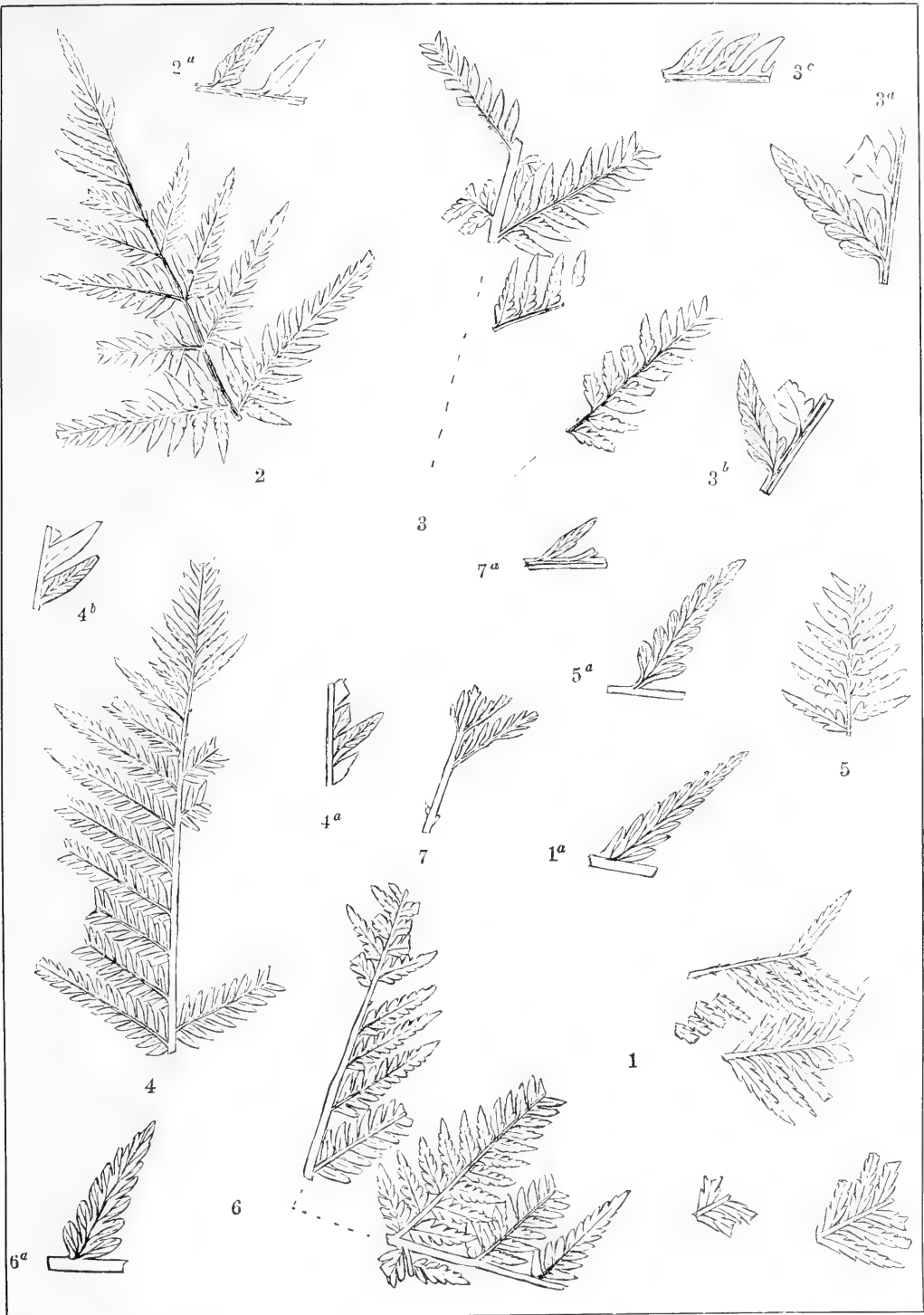


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8 ^a . Pinnule magnified.		100	

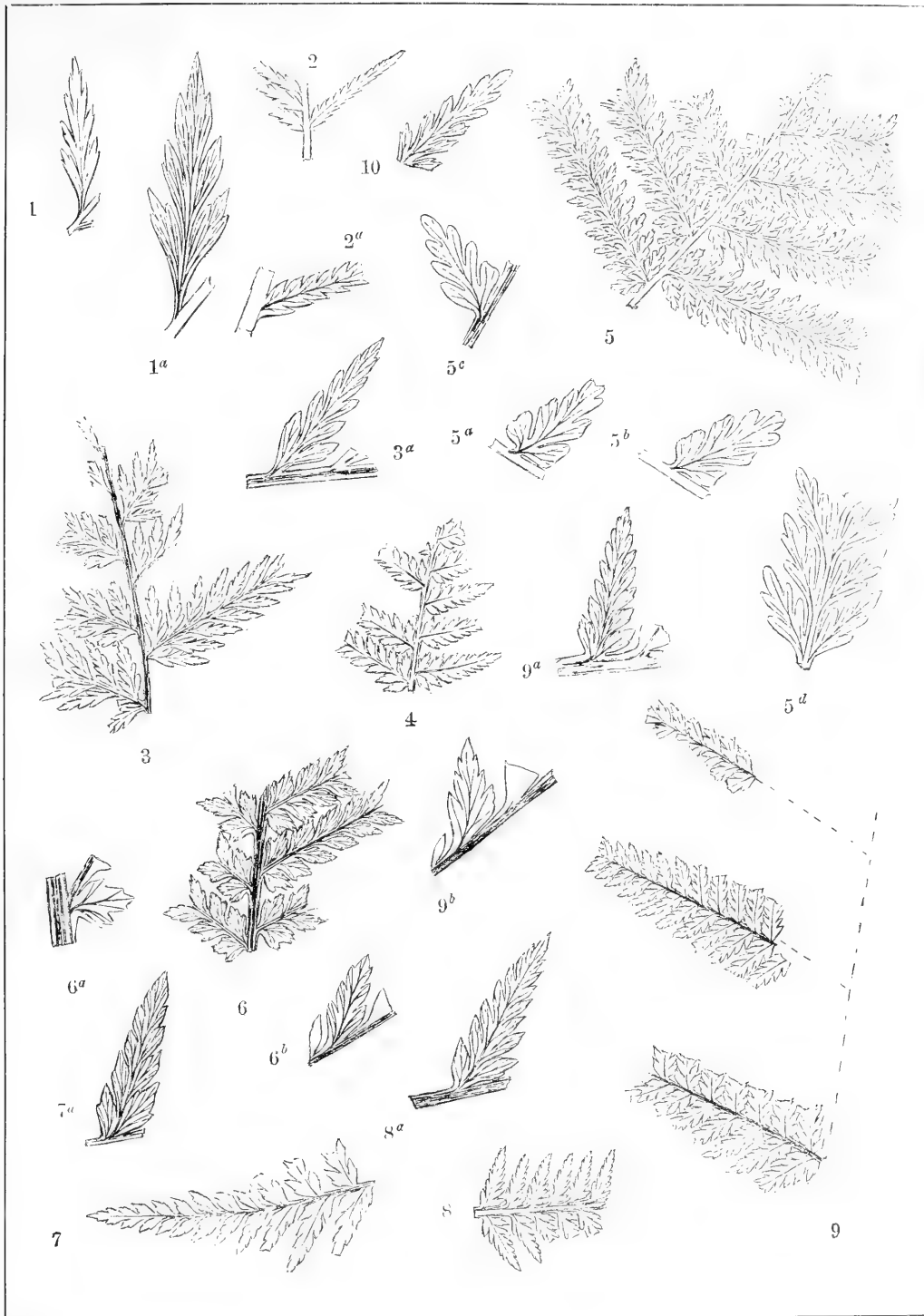


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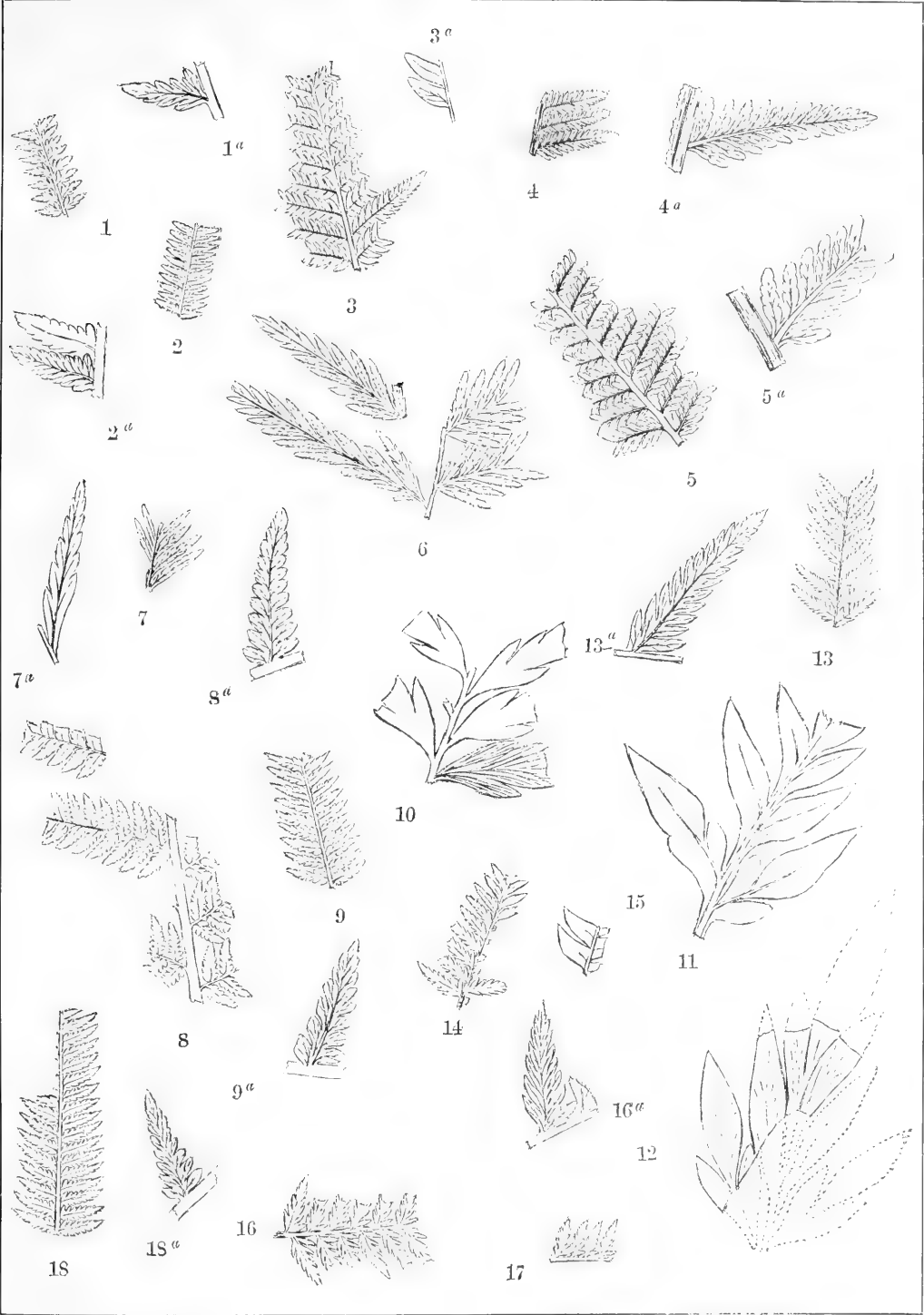


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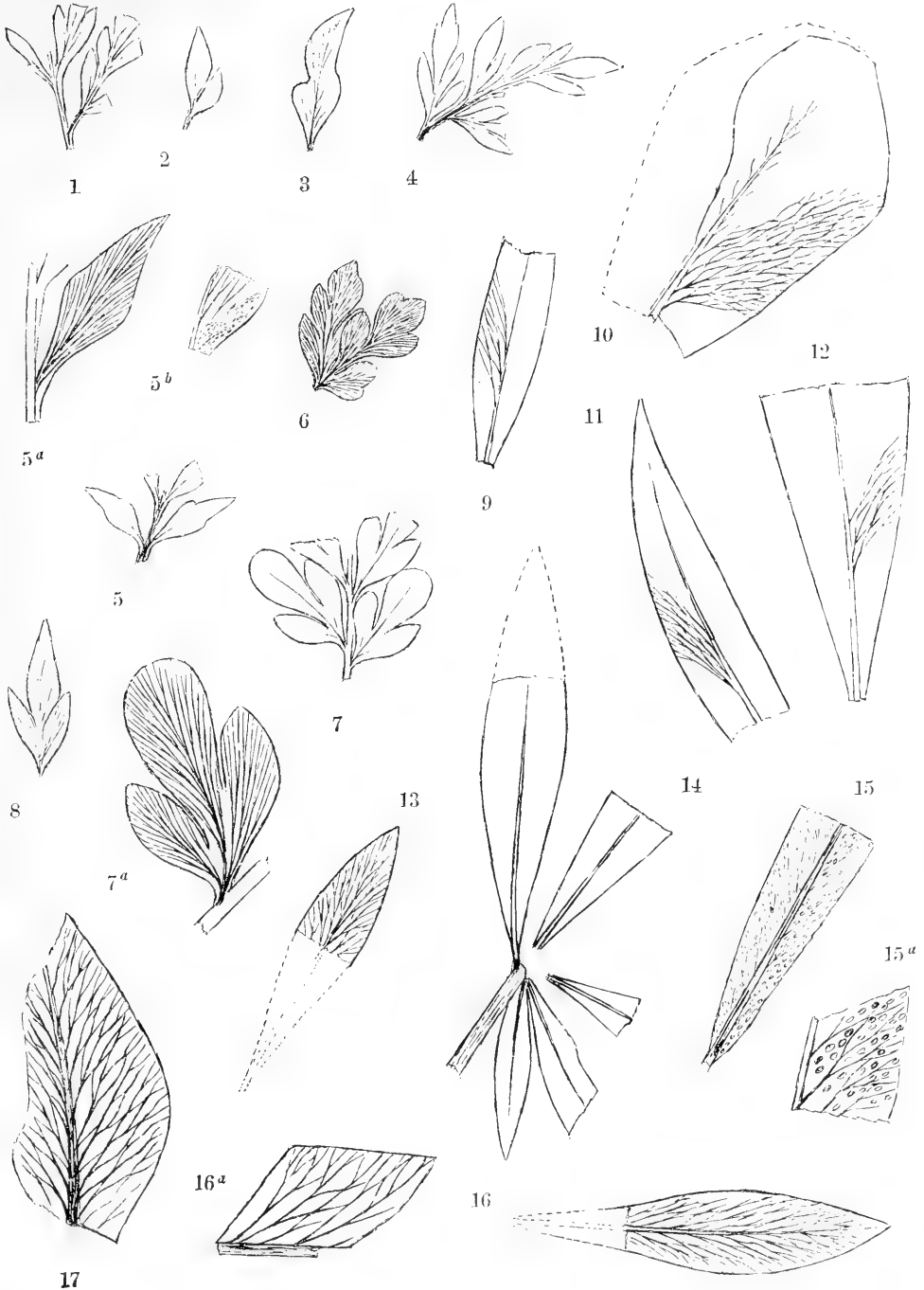


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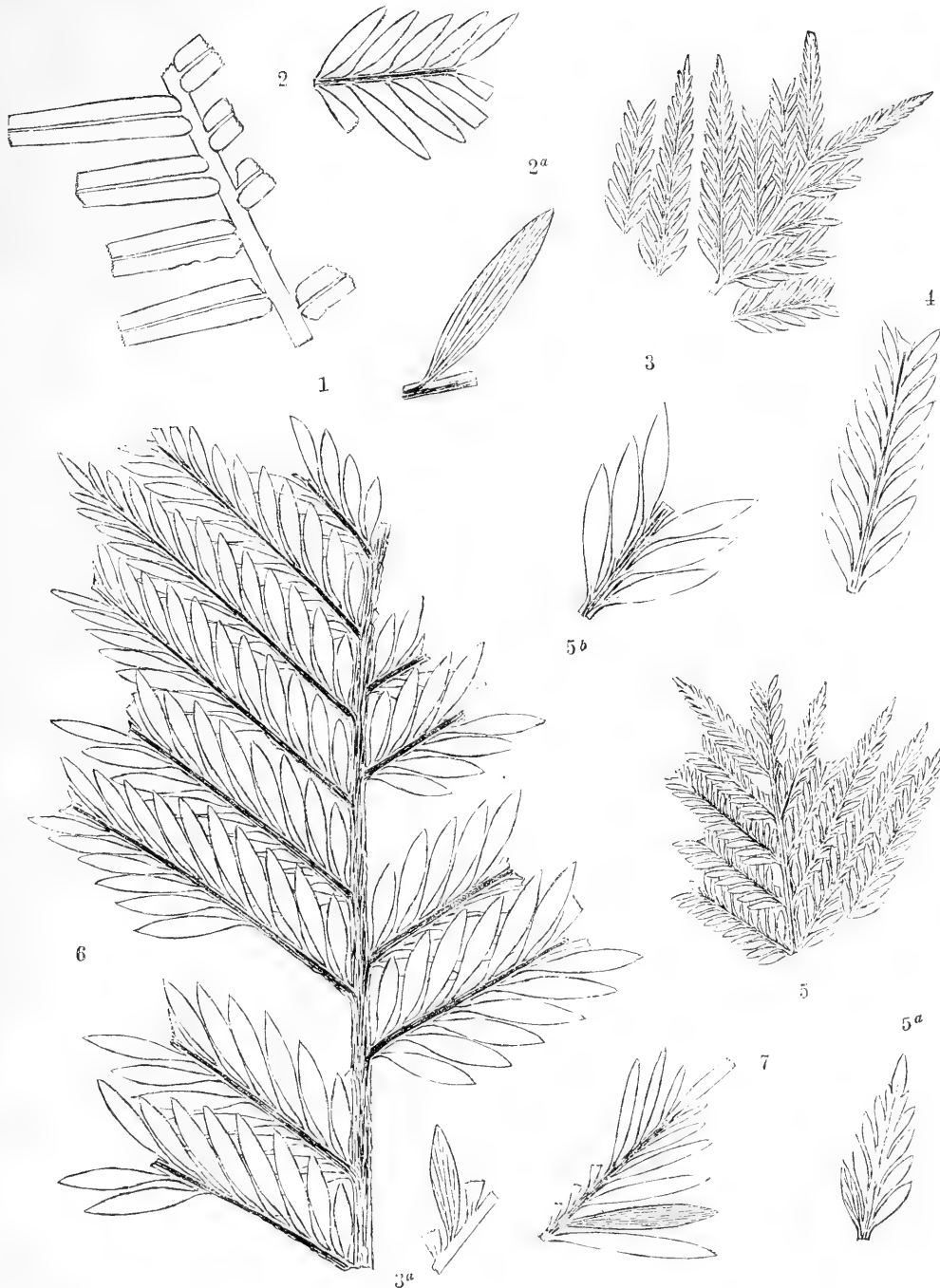


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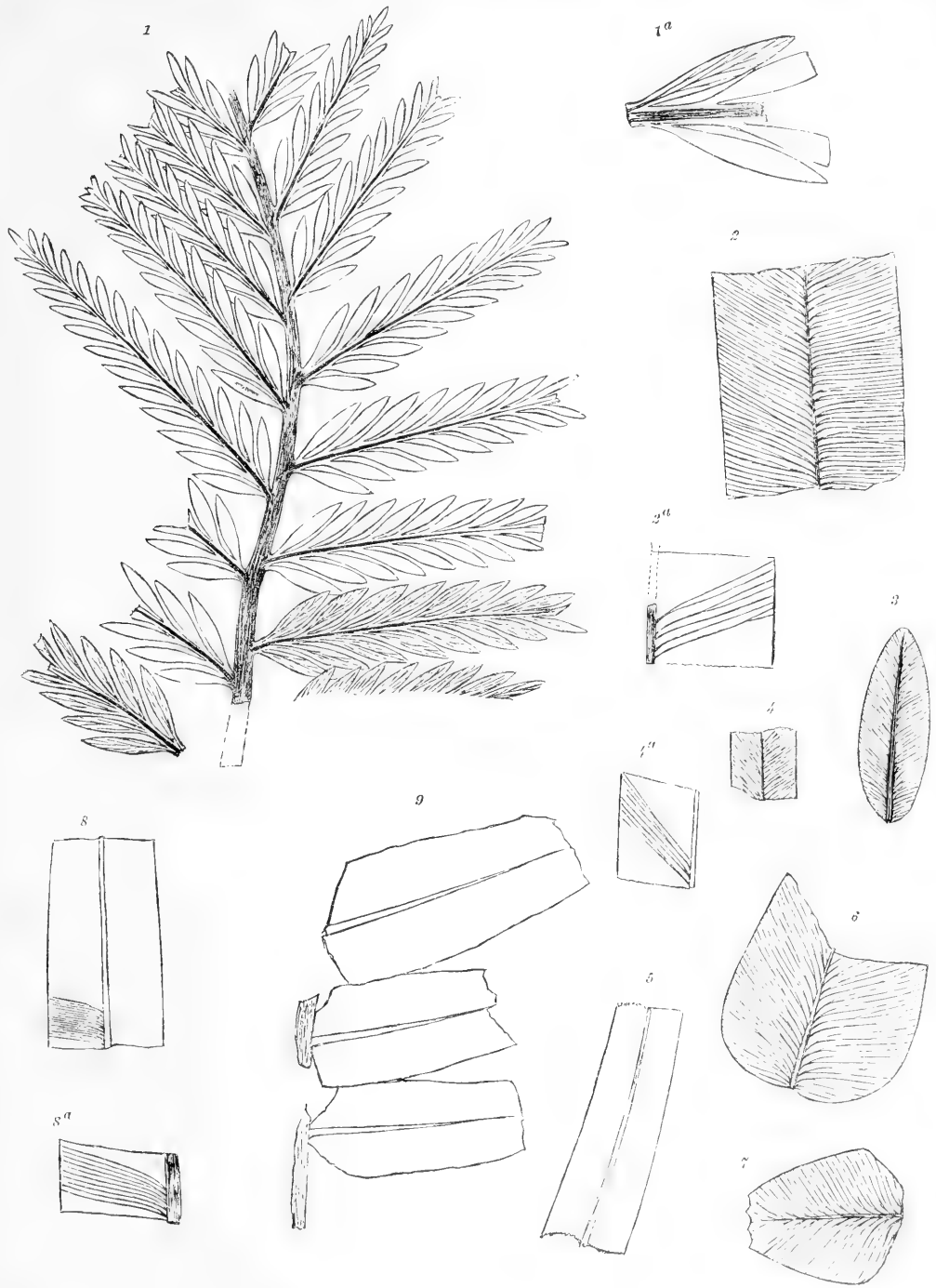
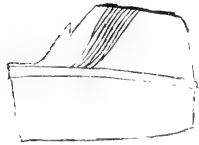


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P L A T E X X X .

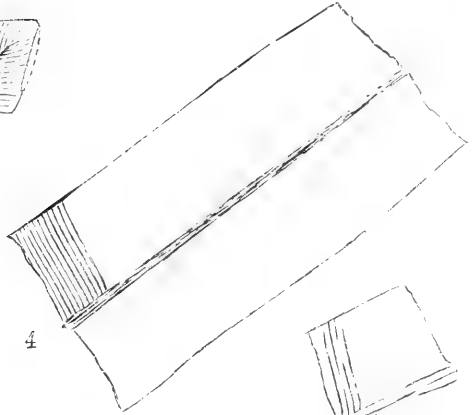
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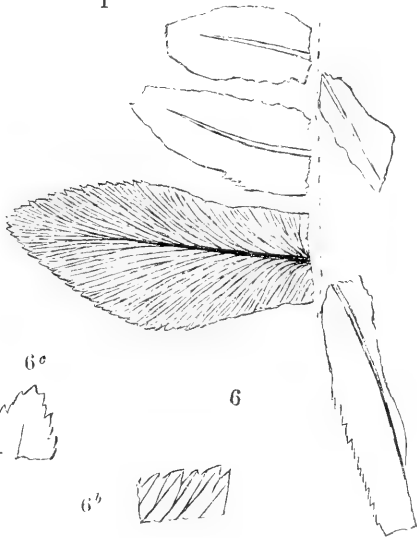
1



4



3



6



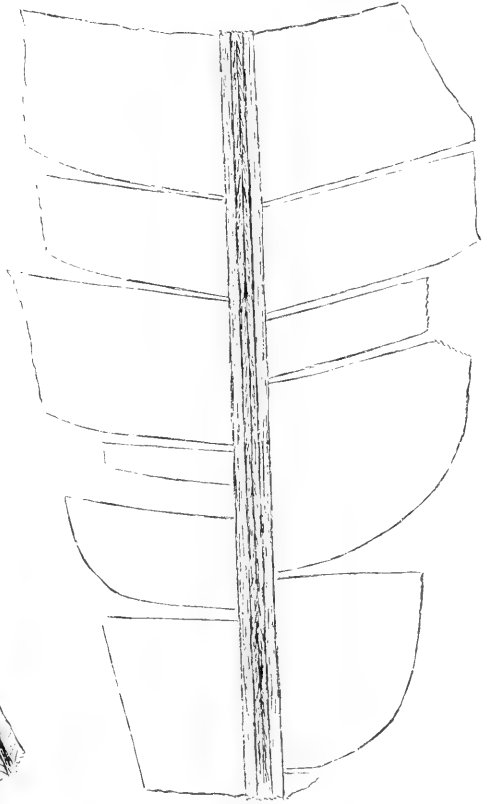
6^c



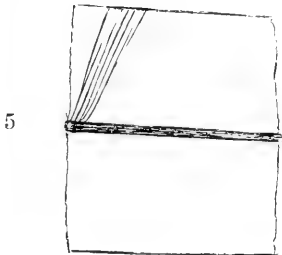
6^b



6^a



8



5

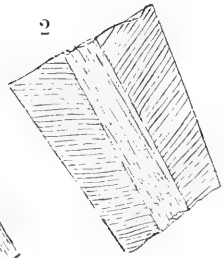
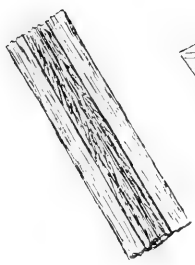
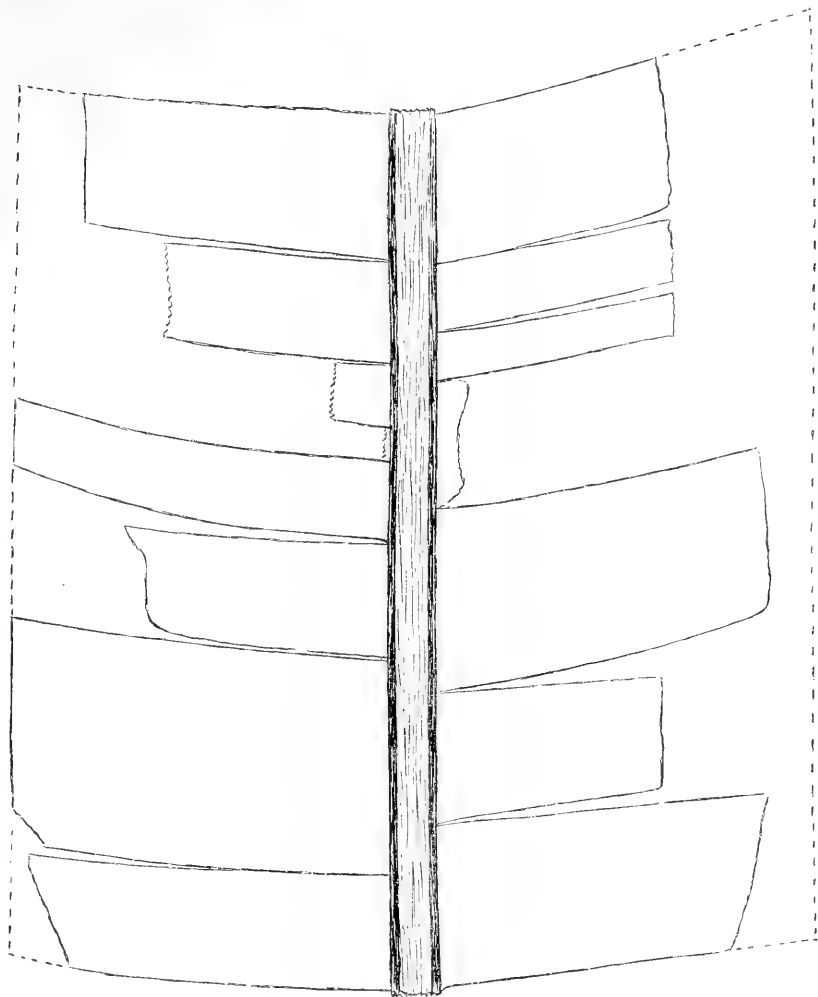


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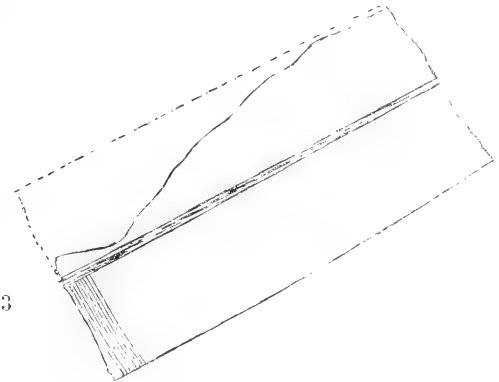
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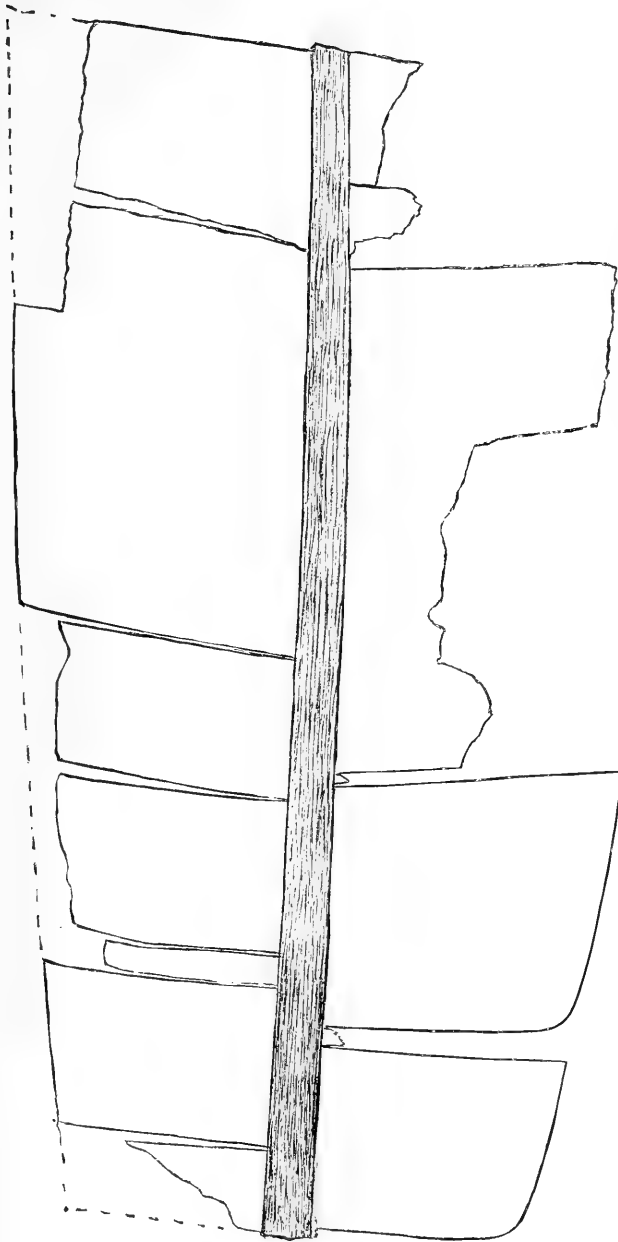
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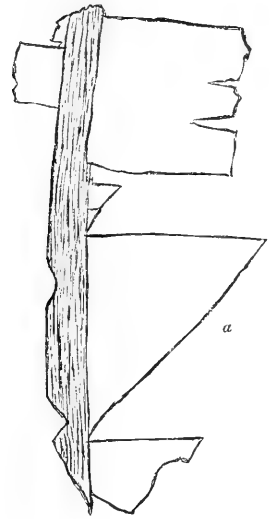
PLATE XXXII.

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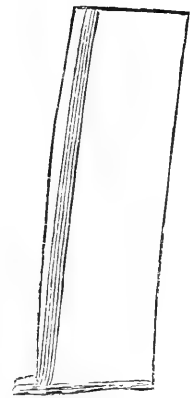
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1



2



1^a

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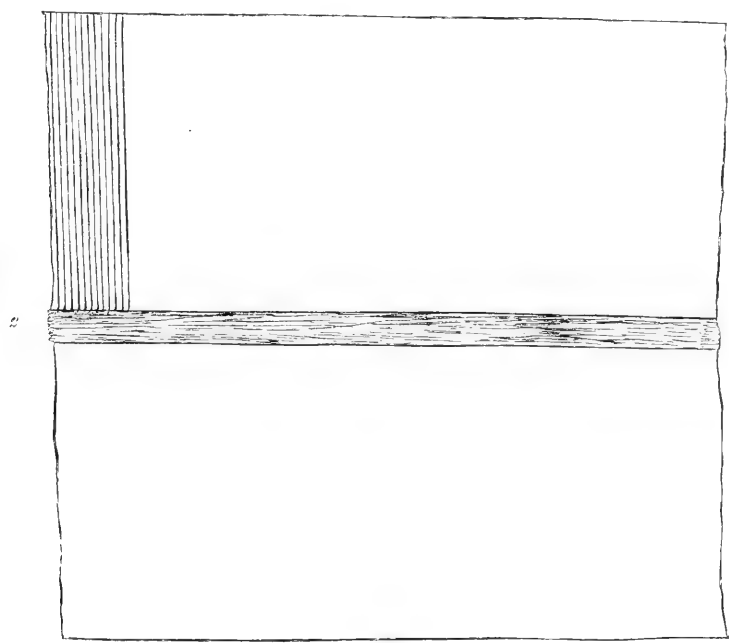
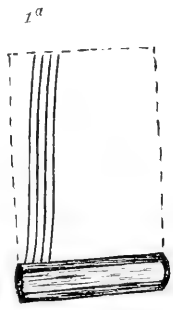
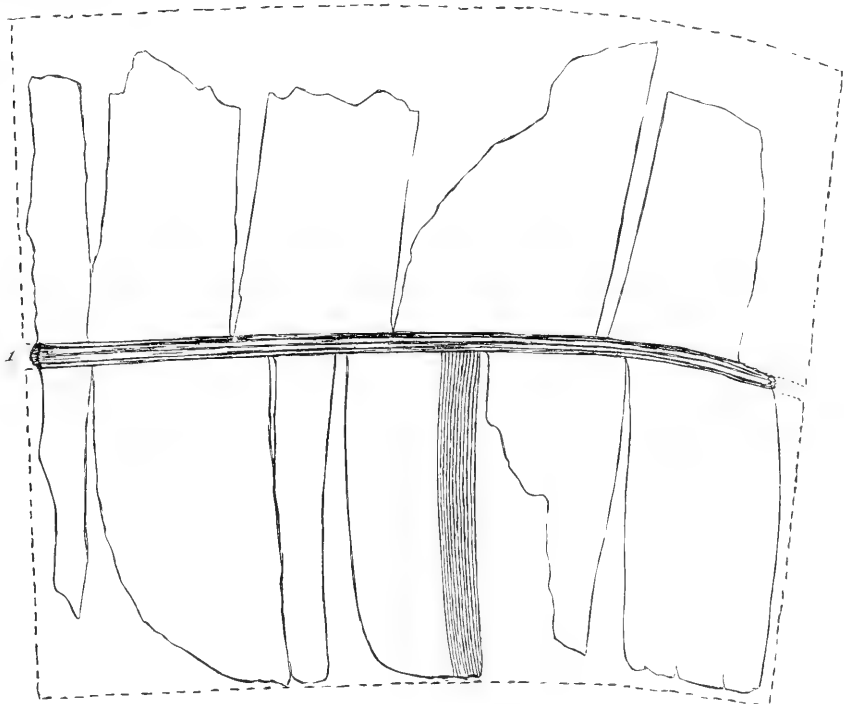
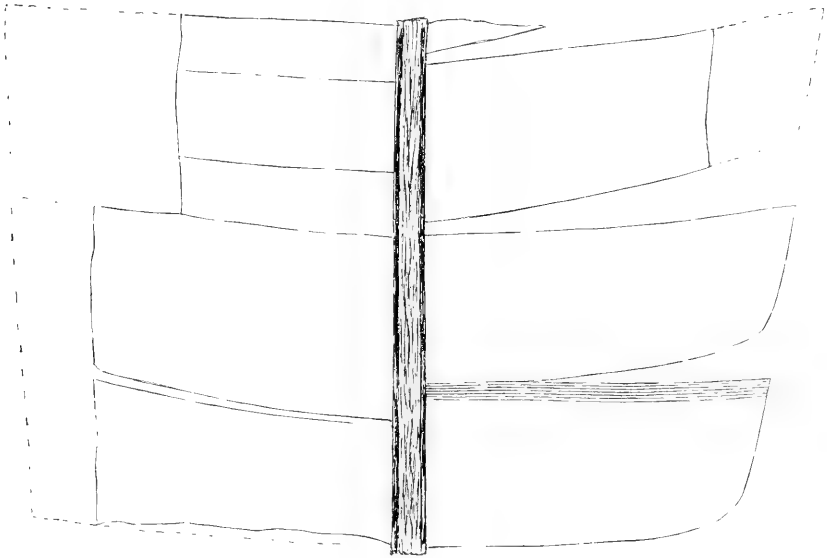


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1



3



2

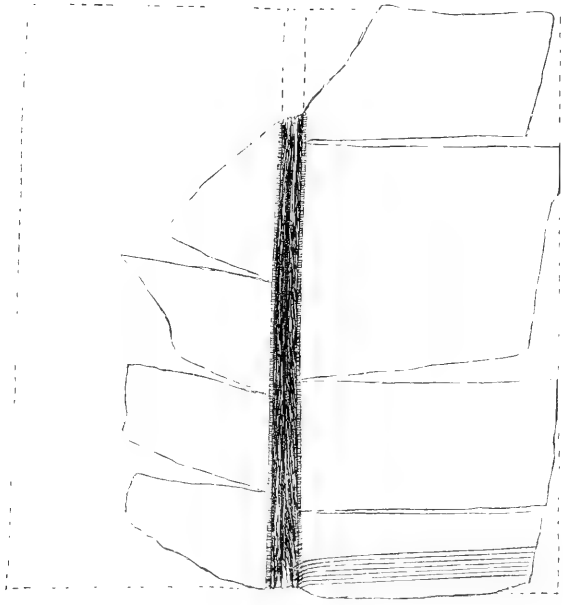
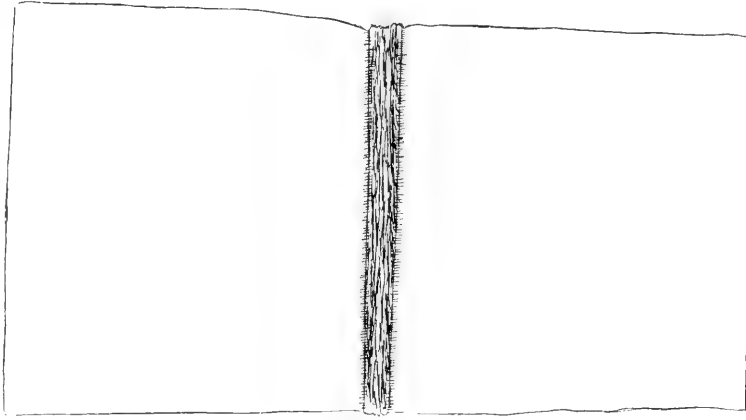


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1



2^a



3



4



4^a



5



6

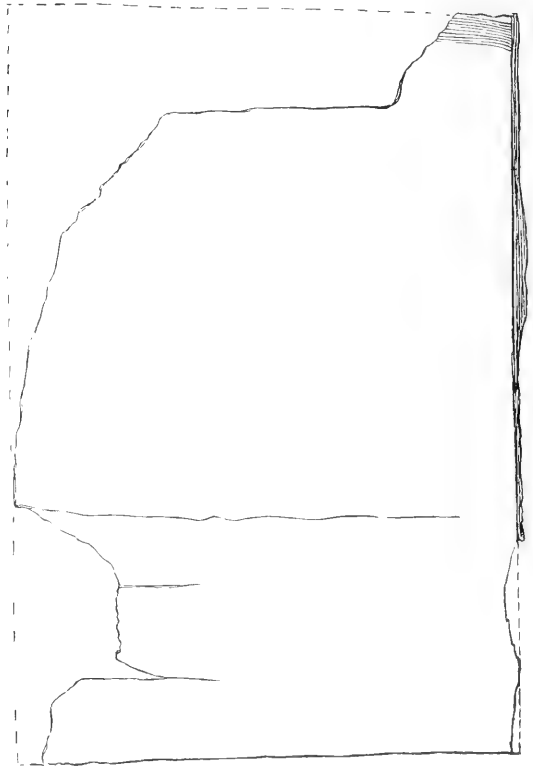


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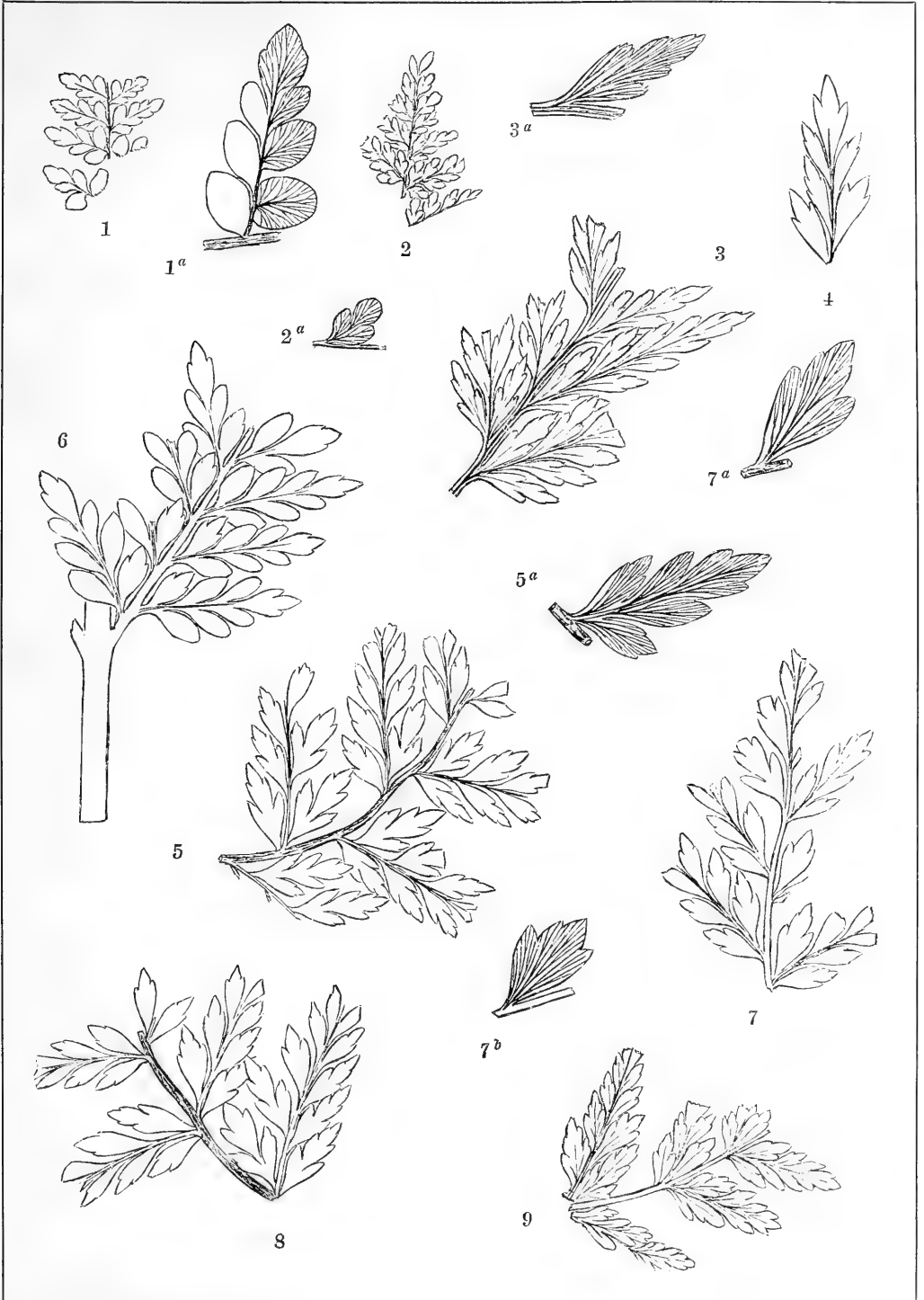


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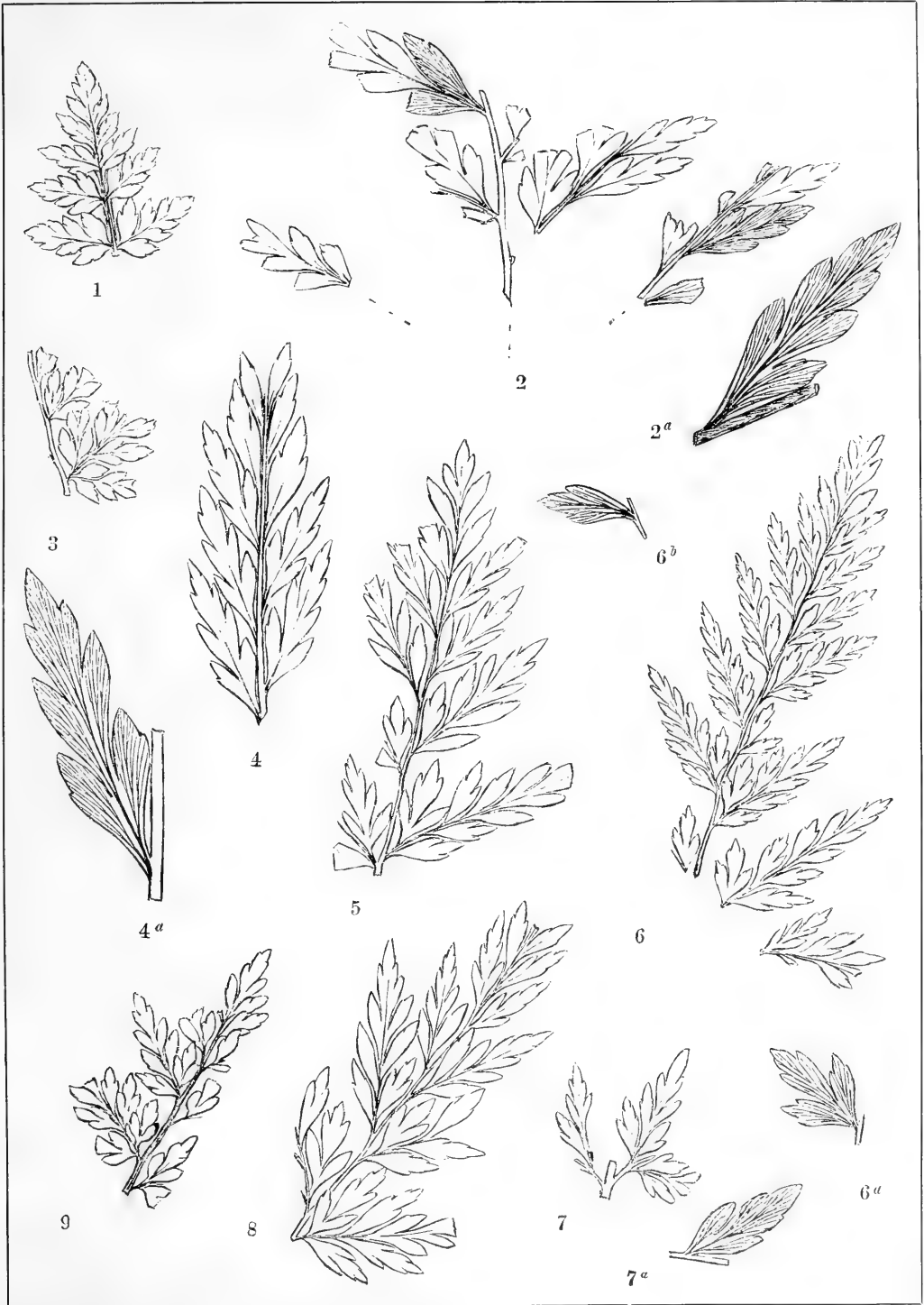


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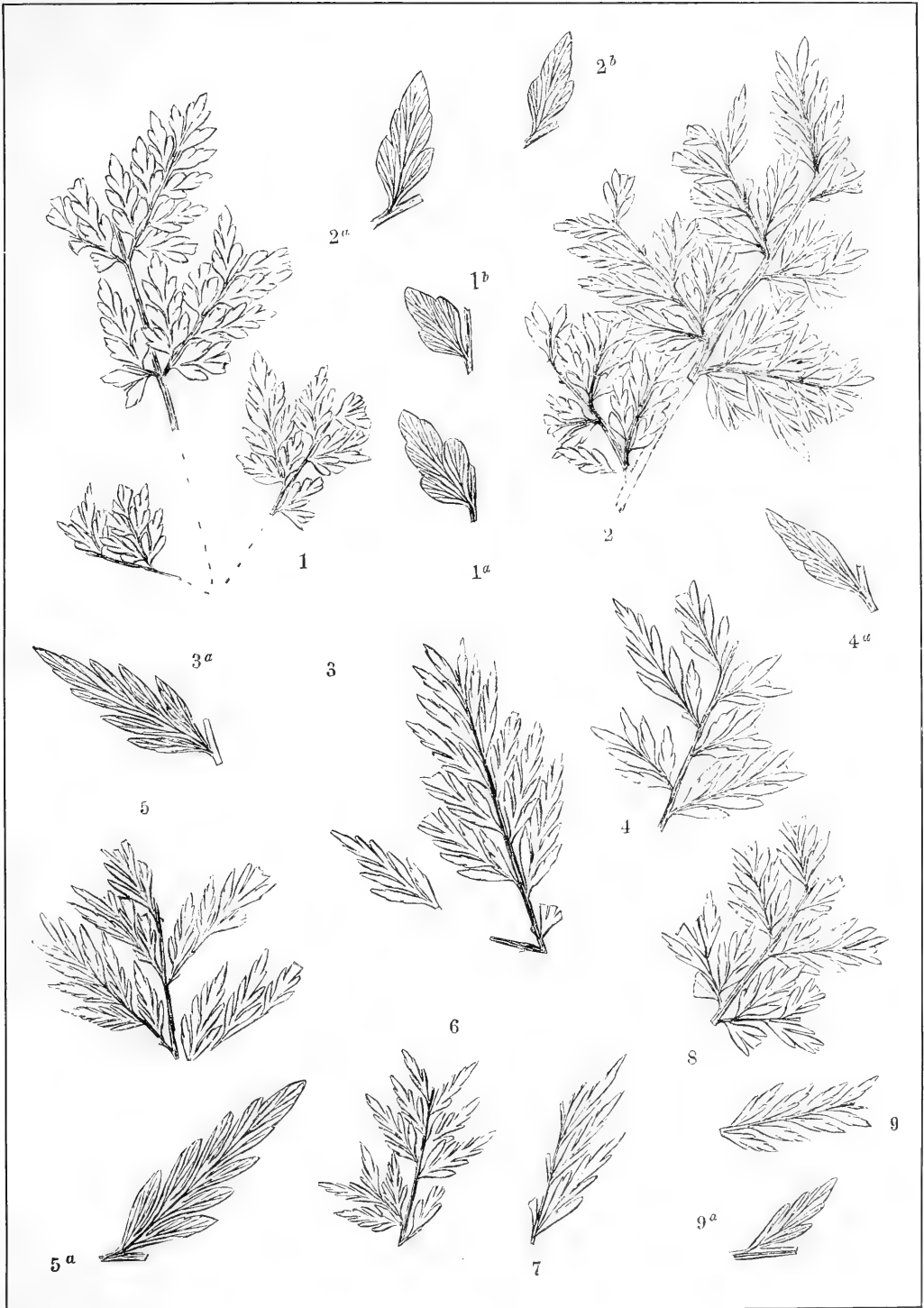


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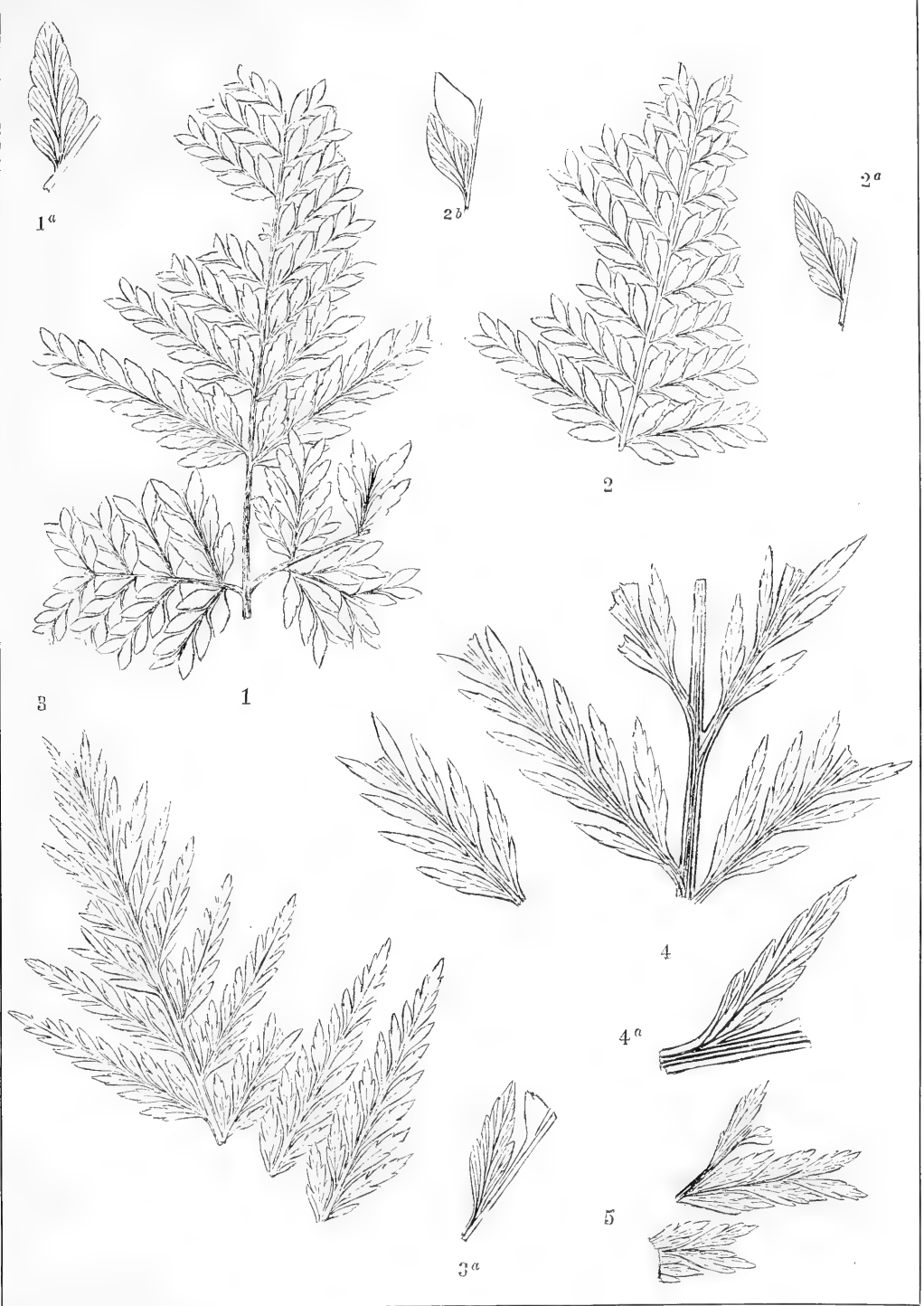


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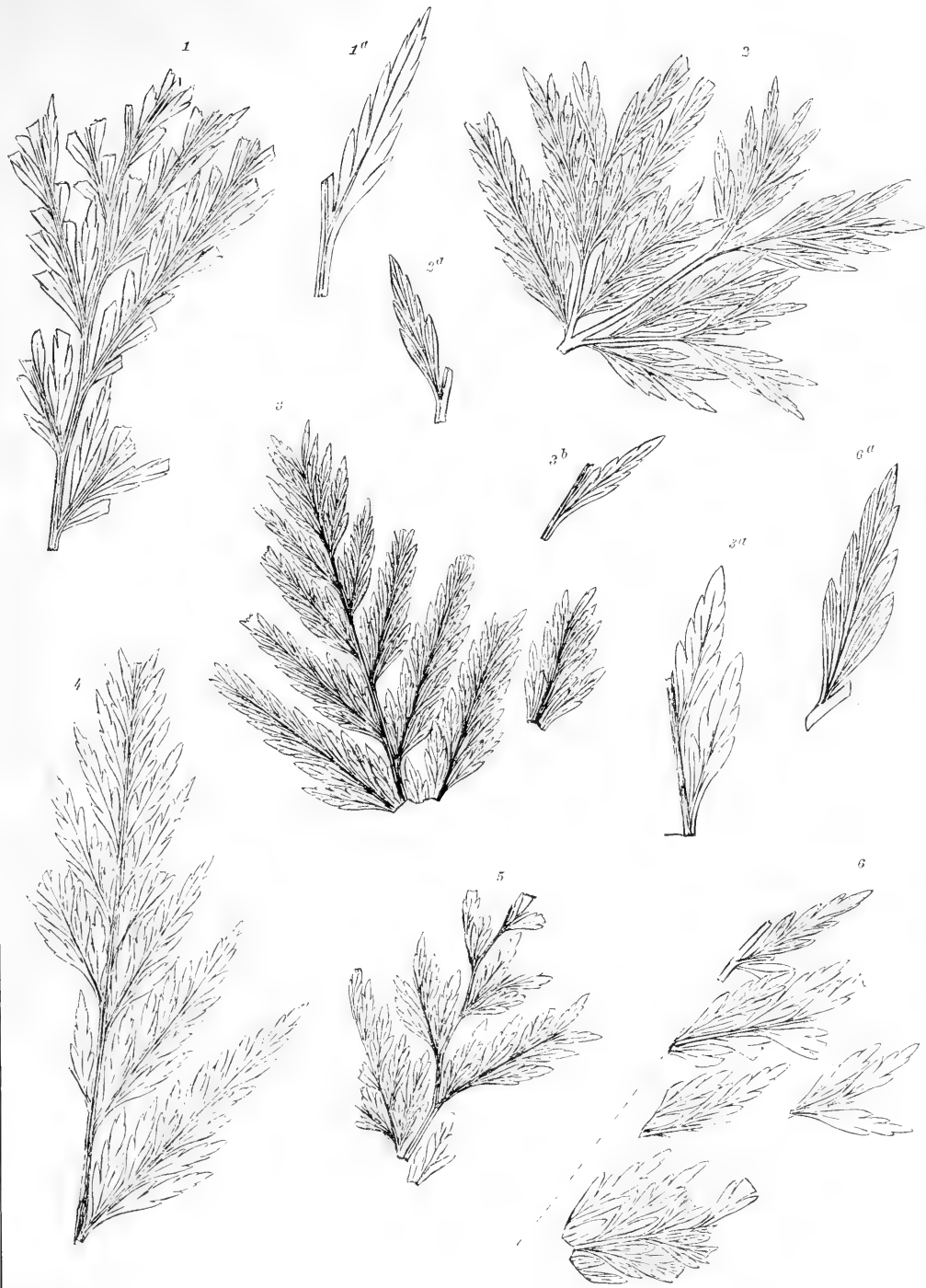


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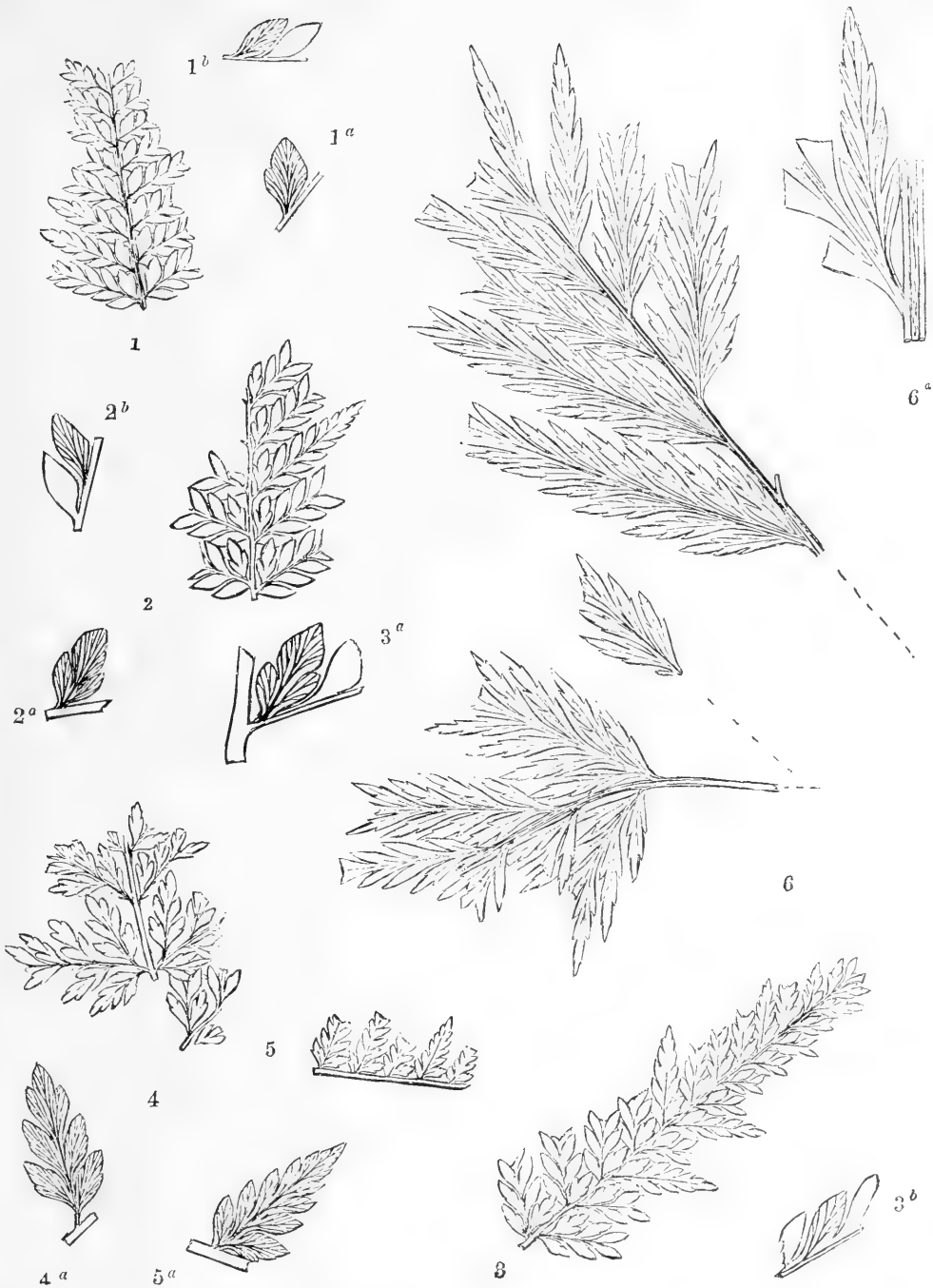


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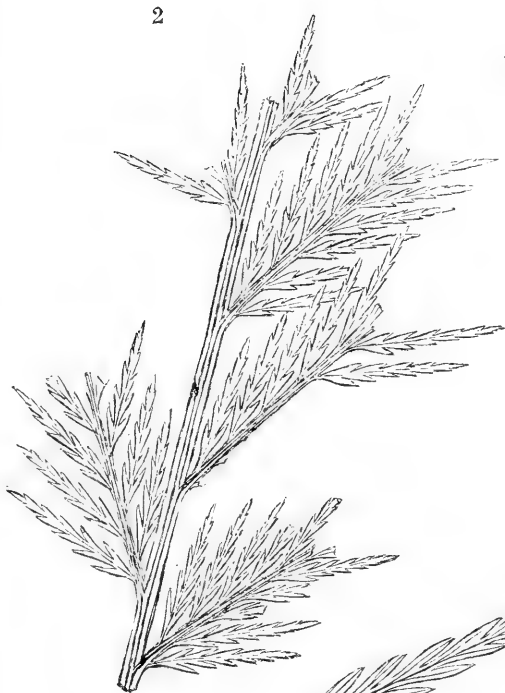
1



3^b



3^a



2



3



2^a



4



4^a

PLATE XLIII.

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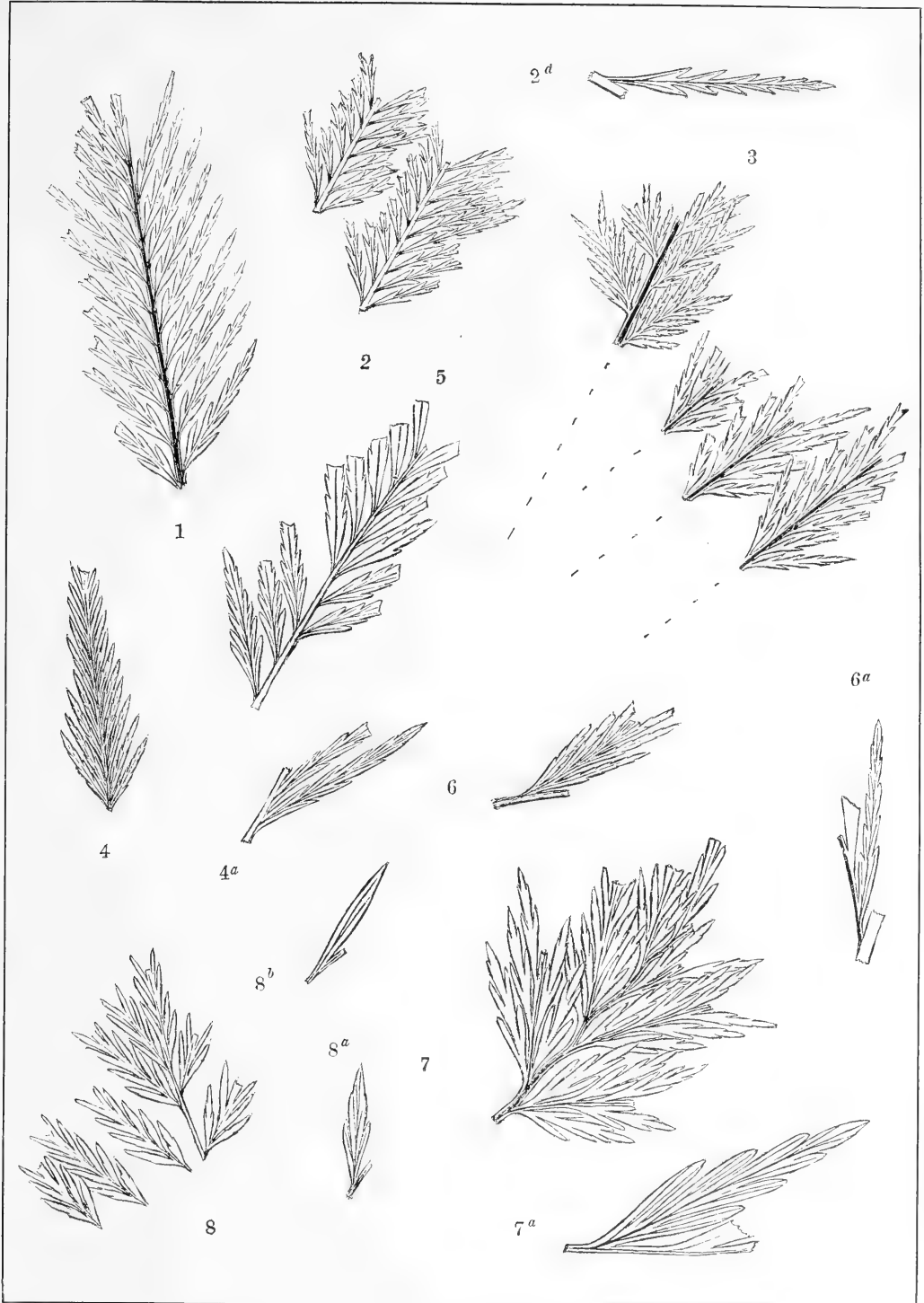


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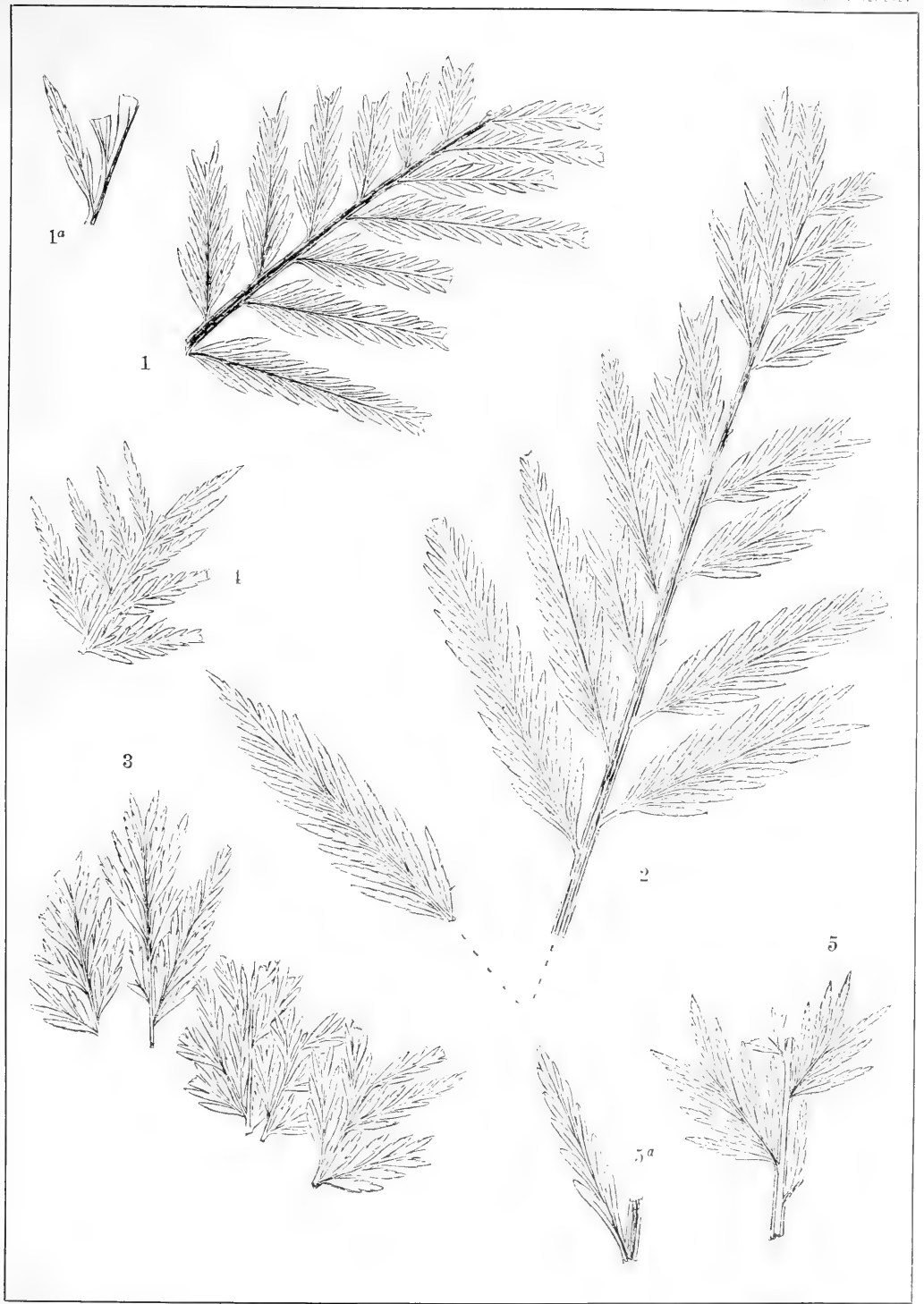


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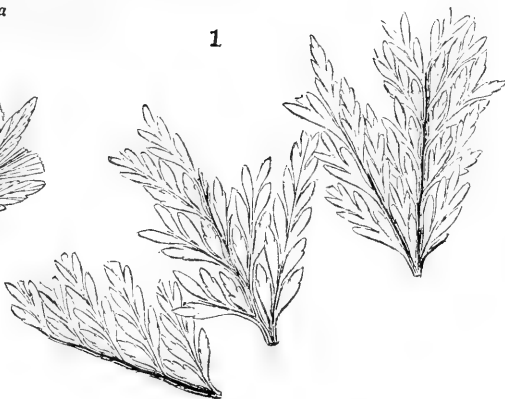
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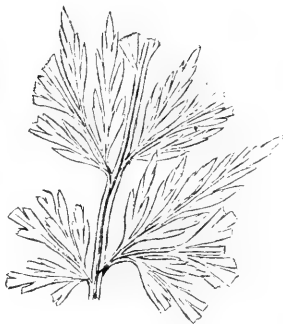
1^a



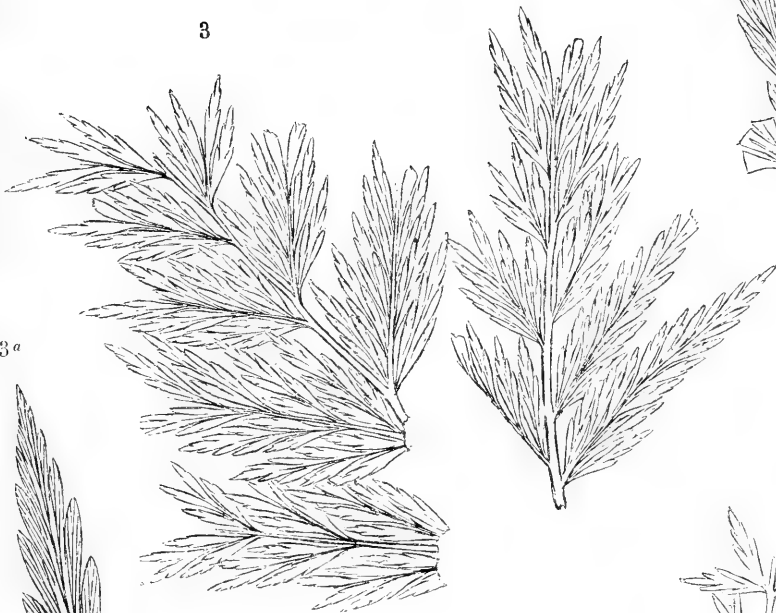
1



2



3



3^a



2^a



4



5

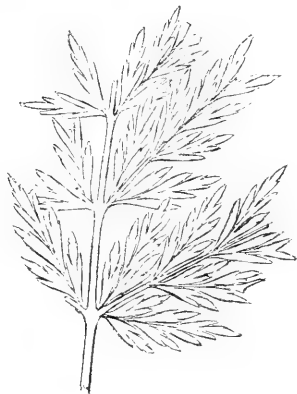


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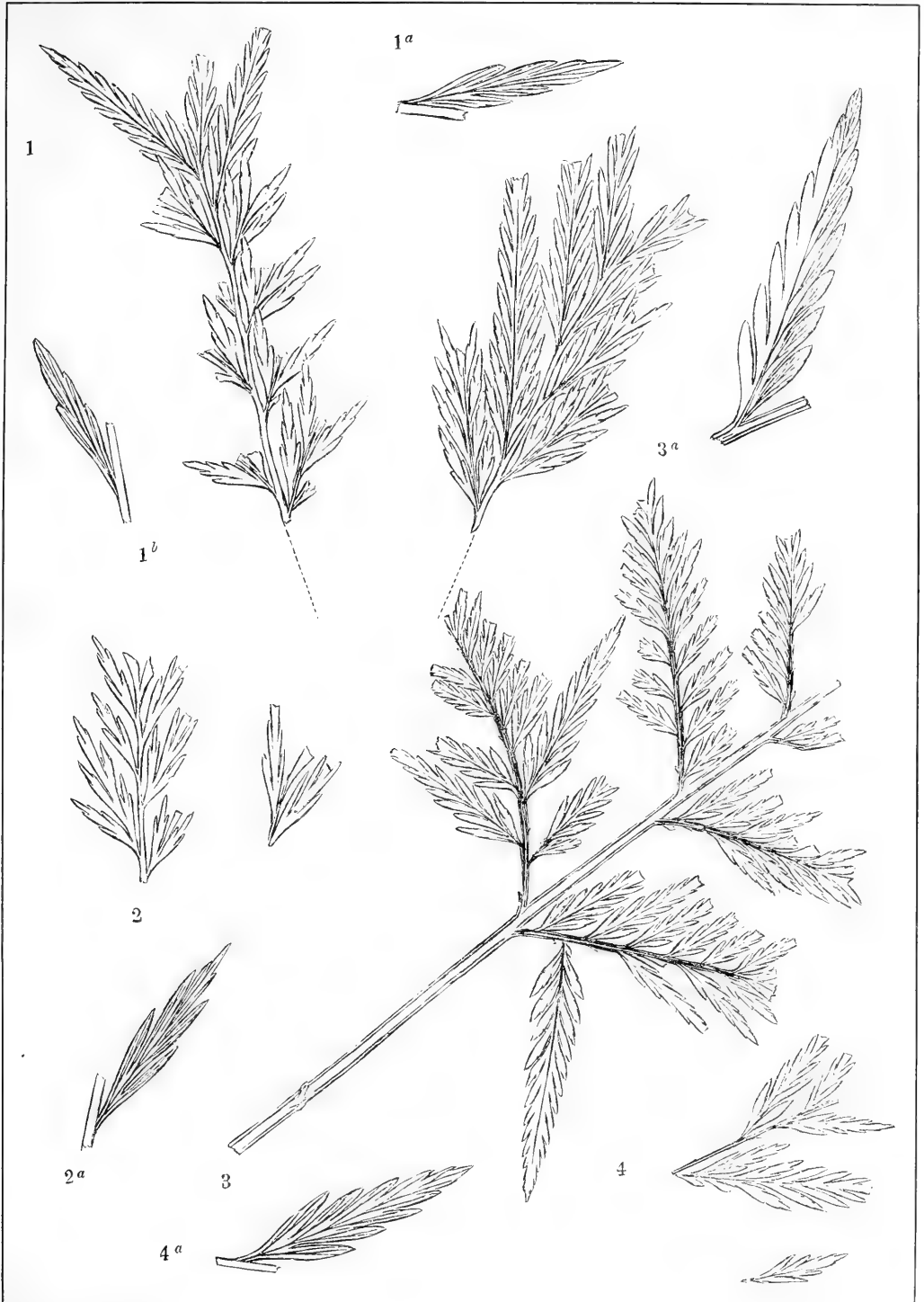


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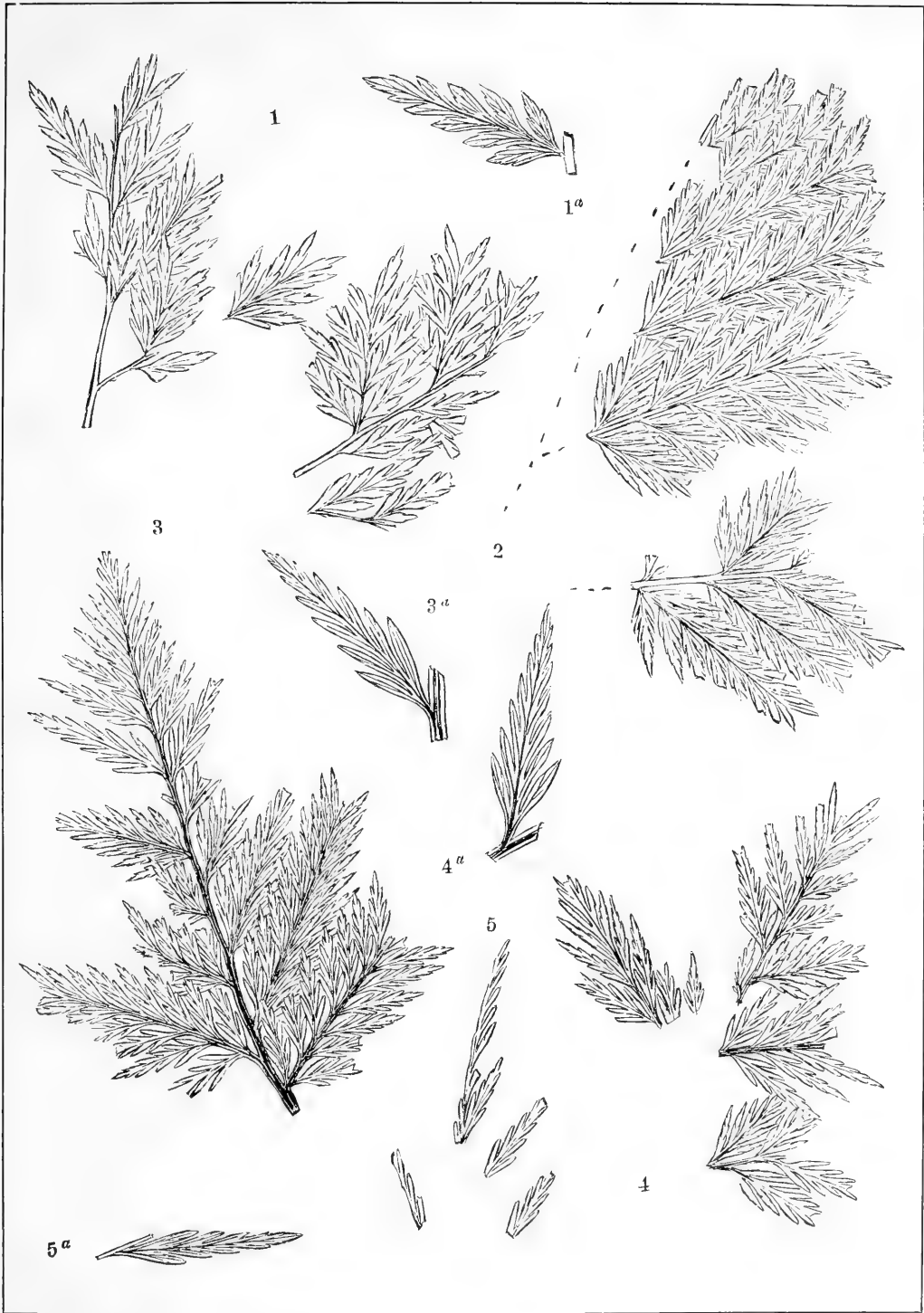


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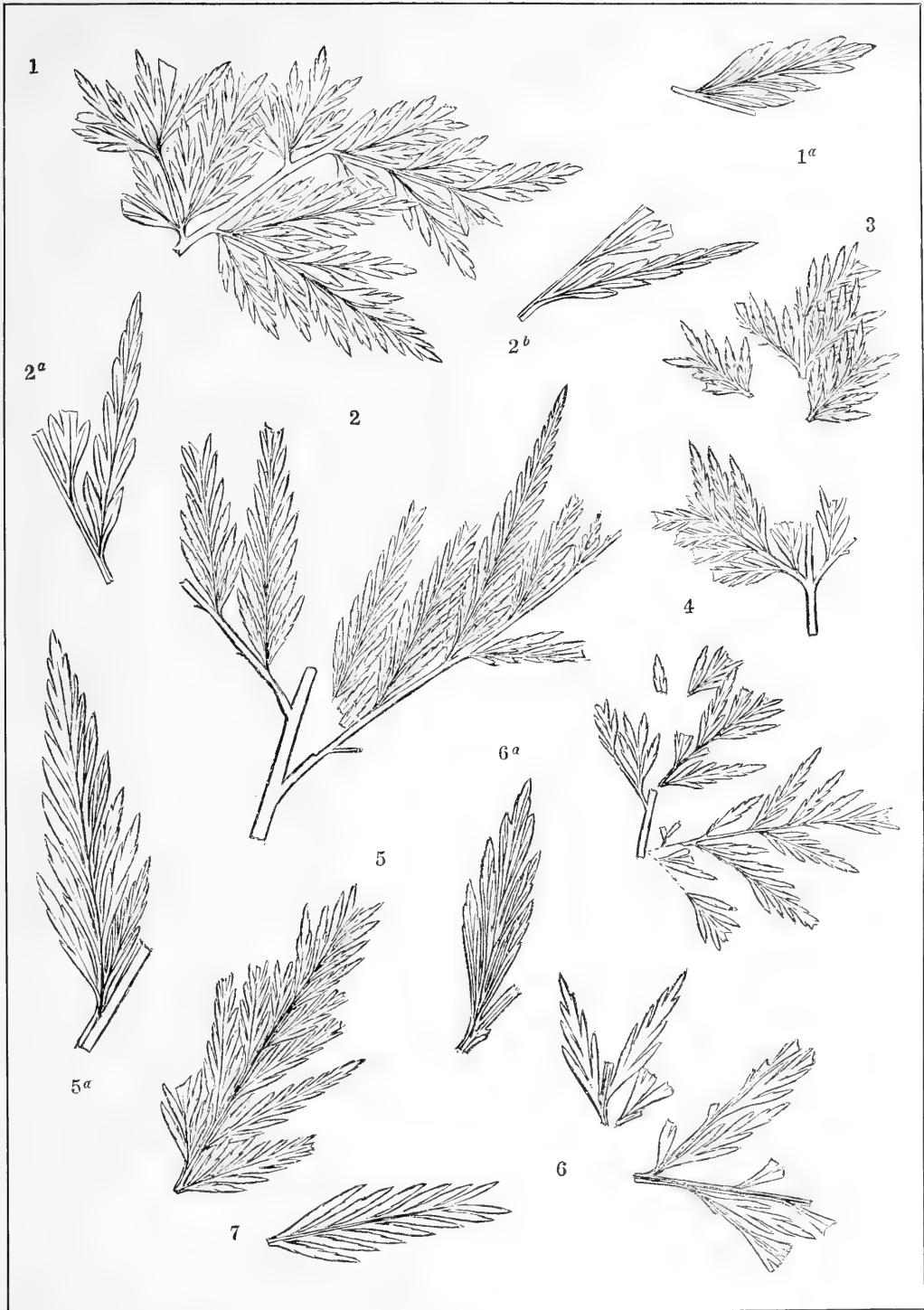


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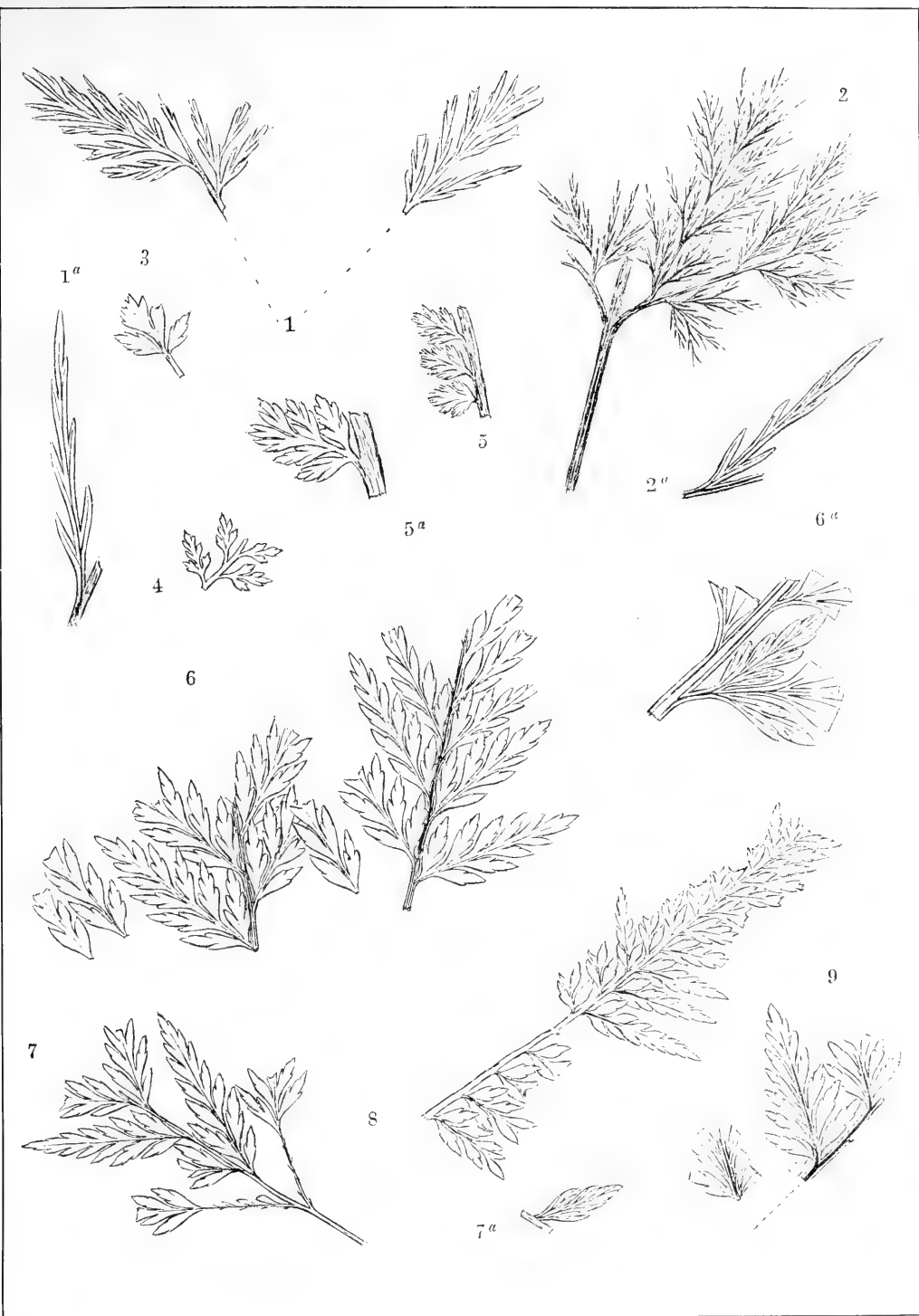


PLATE LI.

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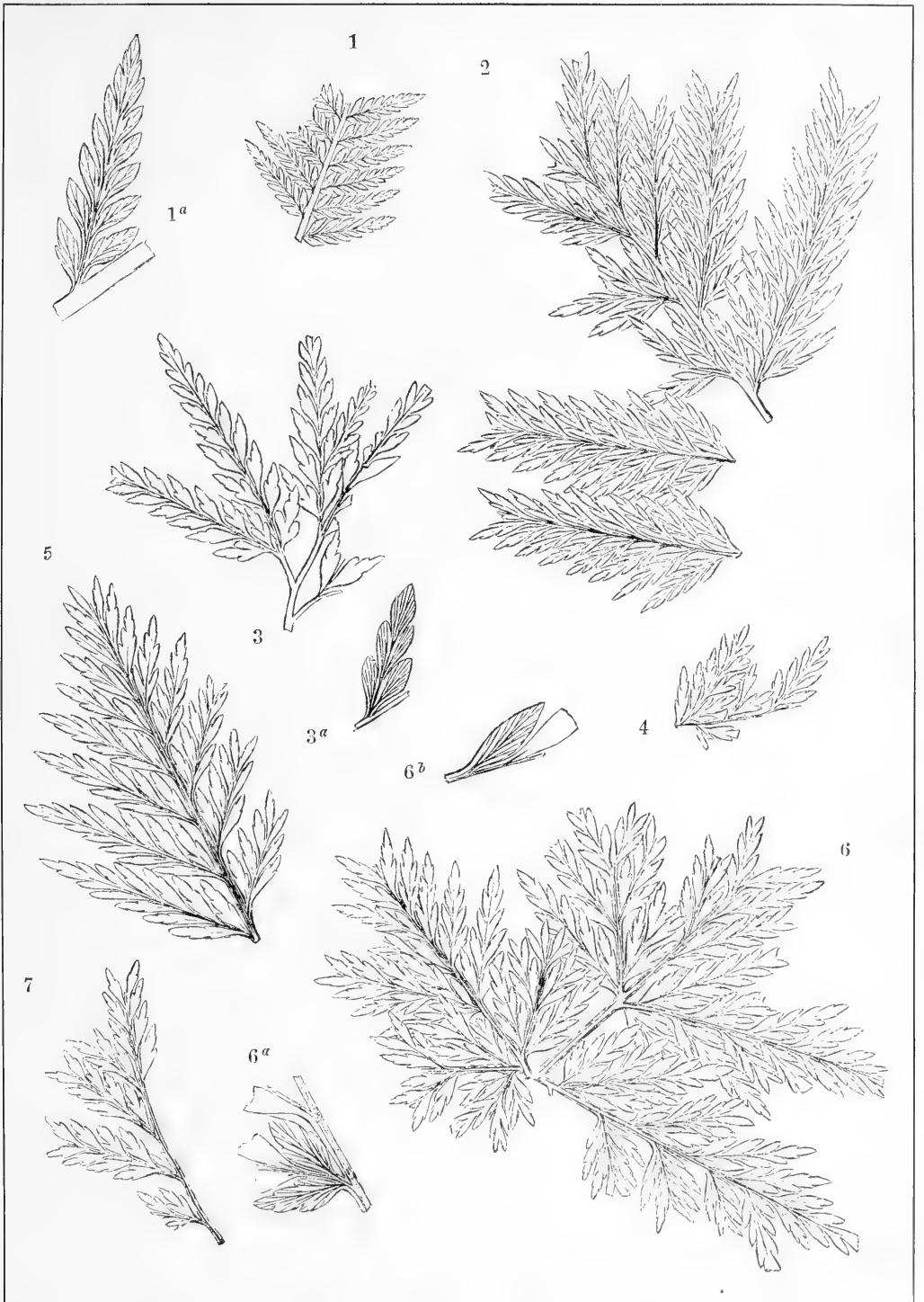


PLATE LII.

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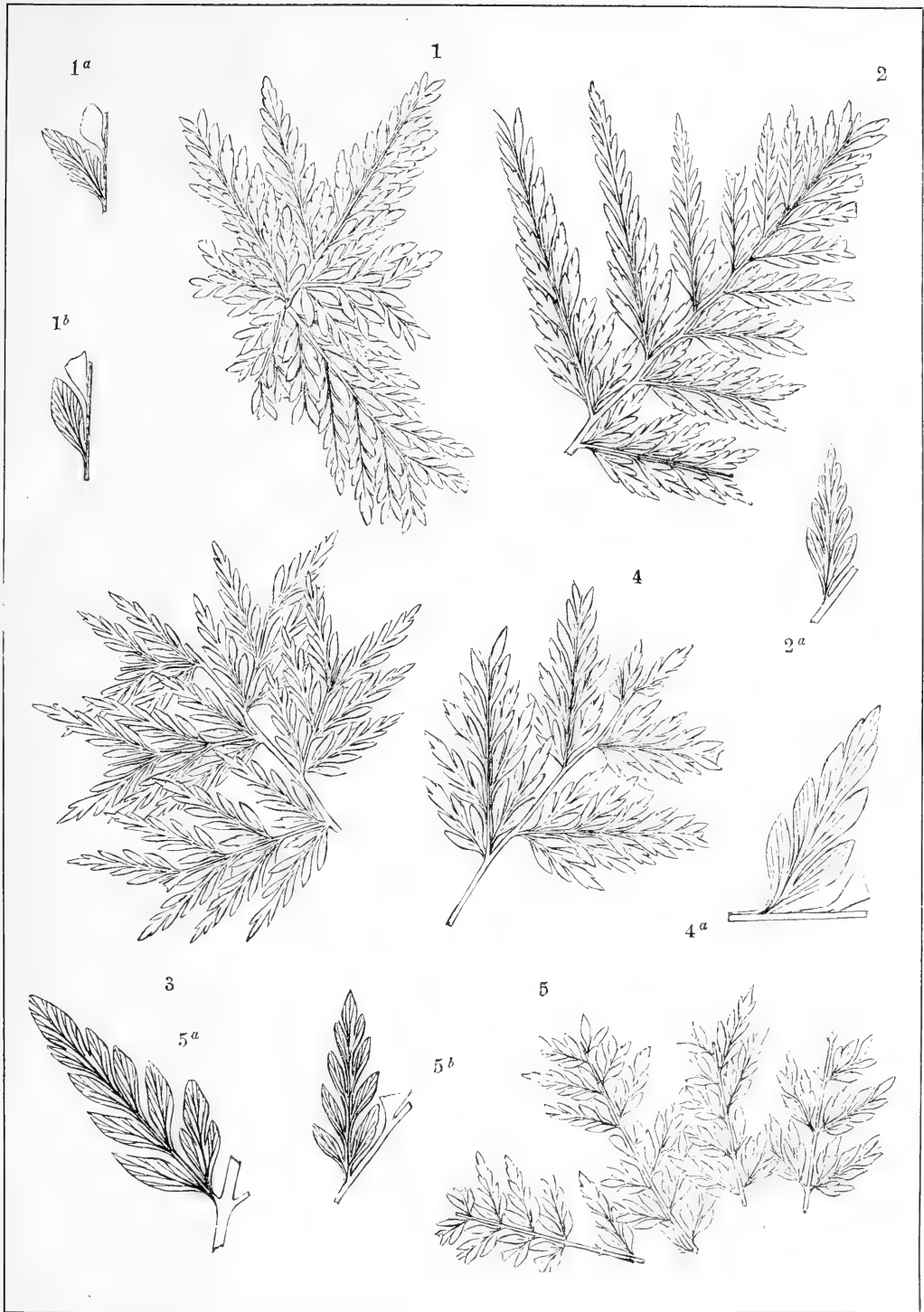


PLATE LIII.

PLATE LIII.

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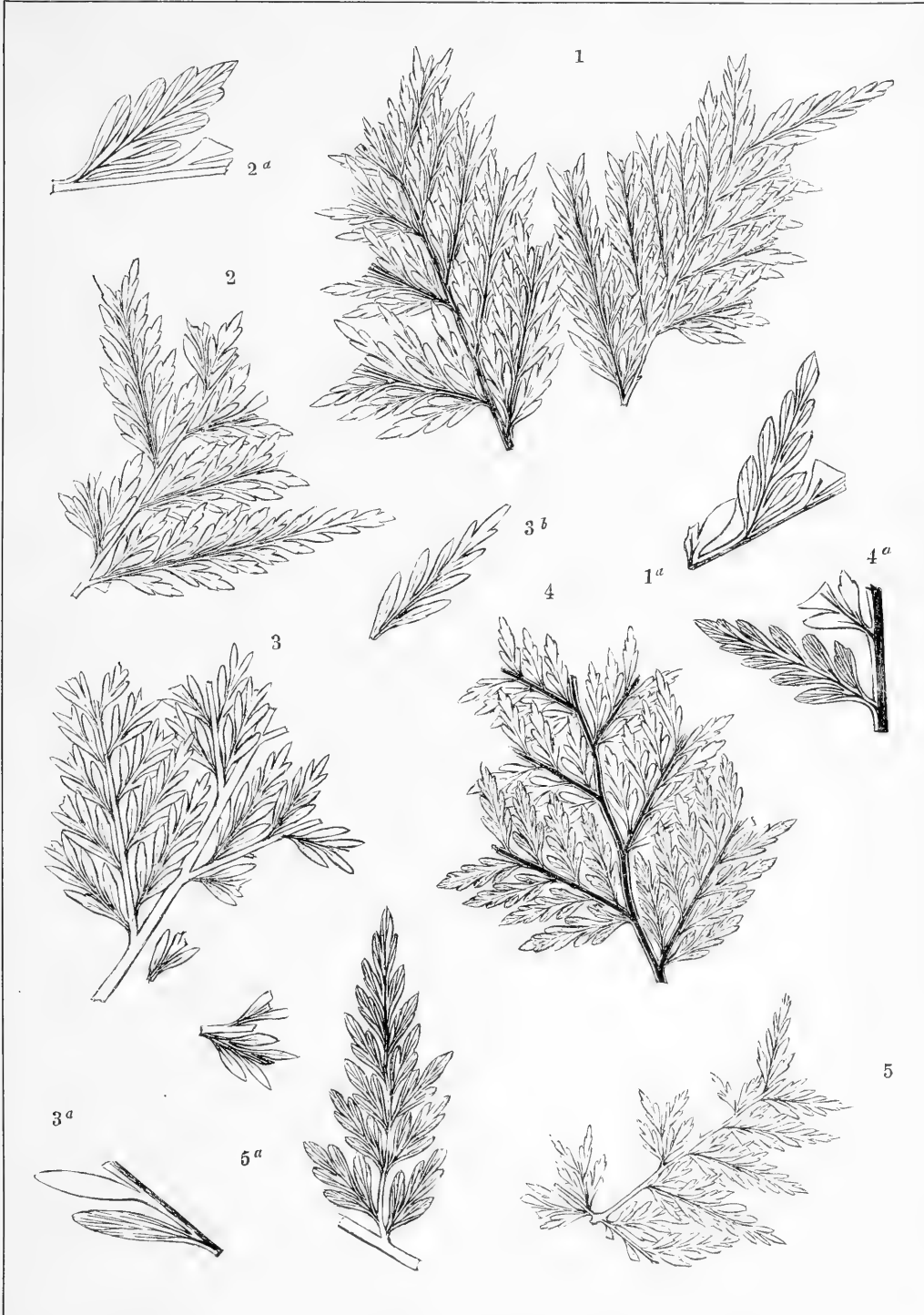


PLATE LIV.

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FIG. 1. THYRSOPTERIS RHOMBIFOLIA, sp. nov.	138
1. Upper part of a compound pinna, differing in some respects from the normal form of <i>T. rhombifolia</i>	138
1 ^a . Ultimate lower pinna magnified	138
1 ^b . Ultimate upper pinna magnified	138
FIGS. 2, 11. THYRSOPTERIS MEEKIANA, var. ANGUSTILORA, sp. nov.	126
2. Small fragment of the upper part of a compound pinna	126
2 ^a . Pinnule magnified	126
11. Small fragment of a compound pinna	126
11 ^a . Pinnule magnified	126
FIGS. 3, 9. ASPIDIUM DUNKERI Schimper, sp.	101
3. Fragment of an upper ultimate pinna	101
3 ^a . Pinnules magnified	101
9. Fragment of an upper ultimate pinna	101
9 ^a . Pinnules magnified	101
FIGS. 4, 5, 7. THYRSOPTERIS PINNATIFIDA, sp. nov.	136
4. Fragment of a lower compound pinna	136
5. Portion of an upper compound pinna	136
7. Upper part of a compound pinna, slightly restored	136
7 ^a . Lower ultimate pinna magnified	136
7 ^b . Upper pinna magnified	136
FIG. 6. THYRSOPTERIS ELLIPTICA, sp. nov.	133
6. Fragment of a compound pinna or of the frond	133
FIG. 8. THYRSOPTERIS DISTANS, sp. nov.	134
8. Upper part of a compound pinna	134
8 ^a . Pinnule of 8 magnified	134
FIG. 10. THYRSOPTERIS VARIANS, sp. nov.	137
10. Upper part of a compound pinna, showing unusually narrow and remote pinnules	137
10 ^a . Pinnules of 10 magnified	137

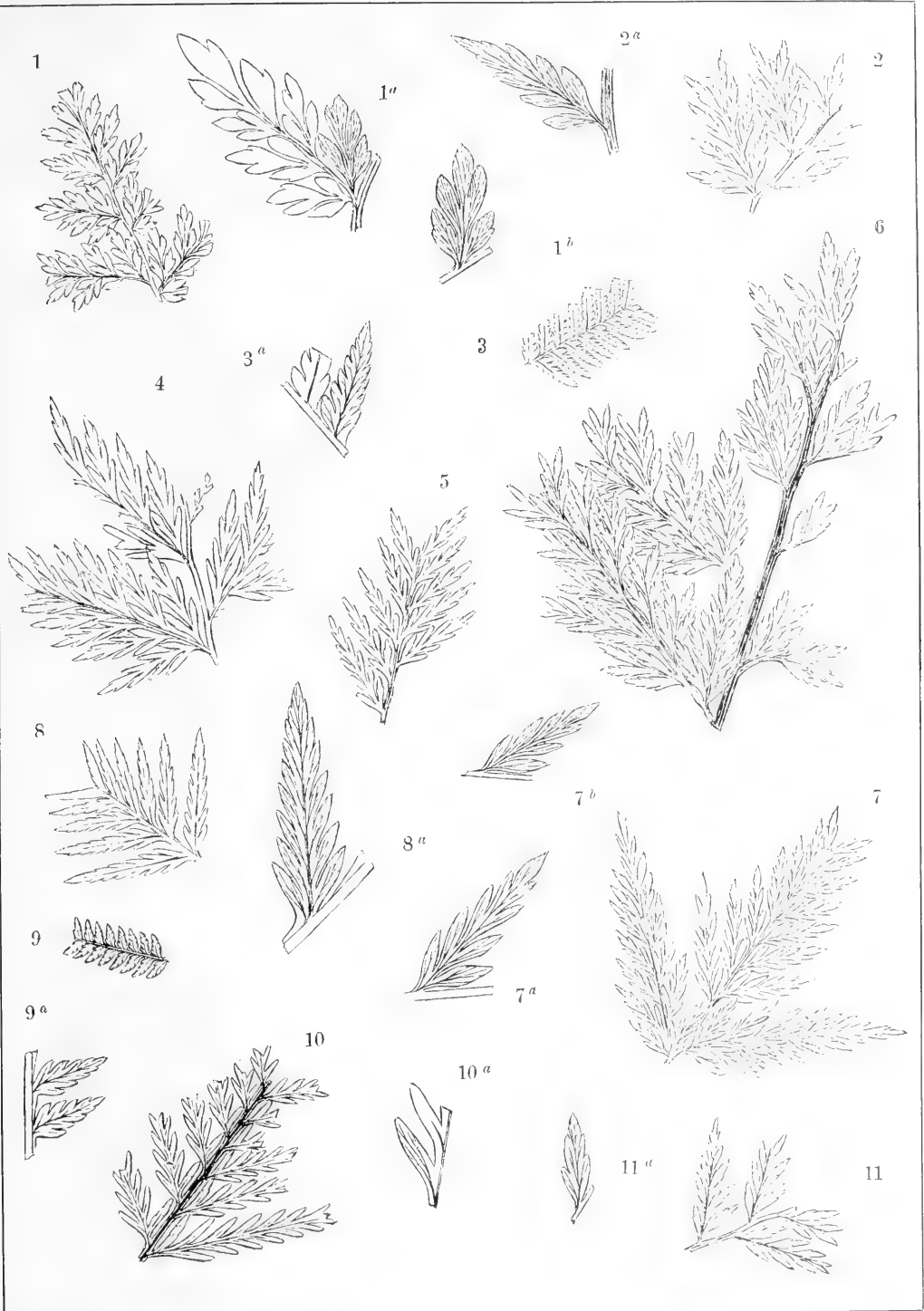


PLATE LV.

PLATE LV.

	Page.
FIG. 1. THYRSOPTERIS MEEKIANA, var. ANGUSTILOBA, sp. nov.	126
1. Summit of a compound pinna.....	126
1 ^a . Pinnule magnified.....	126
1 ^b . Upper pinna magnified.....	126
FIG. 2. THYRSOPTERIS ANGUSTIFOLIA, sp. nov.	131
2. Upper part of a compound pinna or of the frond.....	131
2 ^a . Lower pinnule magnified.....	131
FIG. 3. THYRSOPTERIS ANGUSTILOBA, sp. nov.	134
3. Portions of compound pinnae.....	134
3 ^a . Lower pinnule magnified.....	134
3 ^b . Upper pinnule magnified.....	134
FIG. 4. THYRSOPTERIS ELLIPTICA, sp. nov.	133
4. Summit of a compound pinna.....	133
FIG. 5. THYRSOPTERIS MICROLOBA, var. ALATA, sp. nov.	140
5. Upper part of a compound primary pinna or of the frond.....	140
5 ^a . Lower pinnule magnified.....	140
5 ^b . Upper pinna magnified.....	140
FIGS. 6, 7. THYRSOPTERIS BELLA, sp. nov.	139
6. Upper part of a primary pinna, or of the frond, slightly restored.....	139
6 ^a . Lower pinnule magnified.....	139
7. Upper part of an ultimate pinna.....	139
7 ^a . Several pinnules magnified.....	139



PLATE LVI.

PLATE LVI.

	Page.
FIGS. 1,3. <i>THYRSOPTERIS MEEKIANA</i> , var. <i>ANGUSTILOBA</i> , sp. nov.	136
1. Portions of compound pinnae	136
3. Upper part of a compound pinna	136
FIGS. 2,5. <i>THYRSOPTERIS BELLA</i> , sp. nov.	139
2. Summits of detached ultimate pinnae	139
2 ^a . Pinnule magnified	139
5. Fragments of a primary pinna or of the frond	139
FIGS. 4,8. <i>THYRSOPTERIS NANA</i> , sp. nov.	141
4. Small fragment of a compound pinna	141
8. Upper part of a compound pinna	141
8 ^a . Lower pinnule of a pinna, magnified	141
8 ^b . Pinnule from the middle of a pinna, magnified	141
8 ^c . Pinnule from the terminal portion of a pinna, magnified	141
FIGS. 6,7. <i>THYRSOPTERIS ELLIPTICA</i> , sp. nov.	133
6. Portion of the frond showing the stipe in part	133
6 ^a . Pinnule magnified, nerves not seen	133
7. Fragments of compound pinnae	133

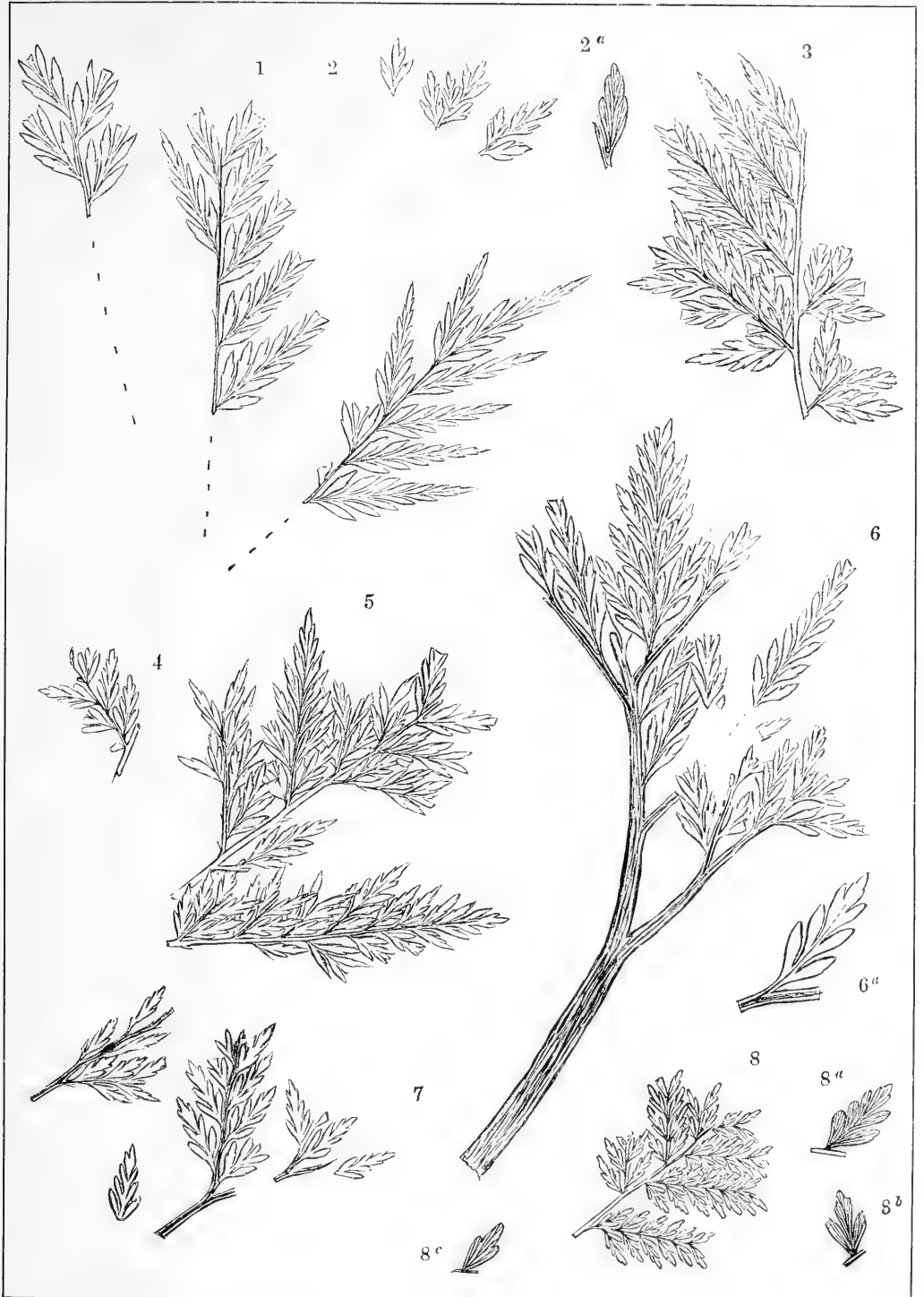


PLATE LVII.

PLATE LVII.

		Page.
FIGS. 1, 5.	THYRSOPTERIS BELLA, sp. nov.	139
	1. Fragments of a primary pinna or of the frond	139
	1 ^a . Ultimate upper pinna magnified, nerves not seen	139
	5. Fragments of a primary pinna or of the frond	139
	5 ^a . Upper pinna magnified	139
FIG.	2. THYRSOPTERIS VARIANS, sp. nov.	137
	2. Portion of a compound pinna	137
	2 ^a . Pinnule magnified, nerves not made out	137
FIG.	3, 8. THYRSOPTERIS INEQUIPINNATA, sp. nov.	142
	3. Terminal portion of a very long and slender ultimate pinna	142
	8. Upper part of a compound pinna	142
	8 ^a . Lower pinnule magnified	142
	8 ^b . Upper pinnule magnified	142
FIG.	4. THYRSOPTERIS MICROLOBA, sp. nov.	140
	4. Portion of a primary pinna or of the frond, slightly restored	140
	4 ^a . Ultimate pinna magnified	140
FIG.	6. THYRSOPTERIS ELLIPTICA, sp. nov.	133
	6. Portion of the upper part of a compound pinna	133
	6 ^a . Pinnule magnified	133
FIG.	7. THYRSOPTERIS PINNATIFIDA, sp. nov.	136
	7. Portion of a compound pinna	136
	7 ^a . Pinnule magnified	136



PLATE LVIII.

PLATE LVIII.

	Page.
FIG. 1. THYRSOPTERIS MICROLOBA, var. ALATA, sp. nov.	140
1. Upper part of a primary pinna or of the frond.	140
1 ^a . Pinnules magnified.	140
FIG. 2. THYRSOPTERIS ELLIPTICA, sp. nov.	133
2. Fragment of a compound pinna.	133
2 ^a . Pinnule magnified.	133
FIG. 3. THYRSOPTERIS HETEROPHYLLA, sp. nov.	142
3. Small fragment of the upper part of a compound pinna.	142
3 ^a . Ultimate pinna magnified.	142
FIG. 4. THYRSOPTERIS BELLA, sp. nov.	139
4. Portion of the upper part of a compound pinna.	139
4 ^a . Pinnule magnified, nerves not made out.	139
FIG. 5. SPHENOPTERIS THYRSOPTEROIDES, sp. nov.	89
5. Fragment of a compound pinna.	89
5 ^a . Pinna magnified.	89
FIG. 6. THYRSOPTERIS SPHENOPTEROIDES, sp. nov.	143
6. Portion of a compound pinna.	143
6 ^a . Lower pinnule magnified.	143
6 ^b . Upper pinnule magnified.	143
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7. Portion of a compound pinna.	143
7 ^a . Pinnule from the lower part of a penultimate pinna.	143
7 ^b . Pinnule from the middle of 7.	143
7 ^c . Pinnule from the summit of 7, all magnified.	143
10. The summit of a compound pinna.	143
10 ^a . Ultimate pinna magnified.	143
FIG. 8. THYRSOPTERIS ANGUSTIFOLIA, sp. nov.	131
8. Portion of a compound pinna.	131
8 ^a . Pinna or a pinnule magnified.	131
FIG. 9. OSMUNDA DICKSONIODES, sp. nov.	146
9. Upper part of a compound pinna.	146
9 ^a . Pinnule magnified.	146

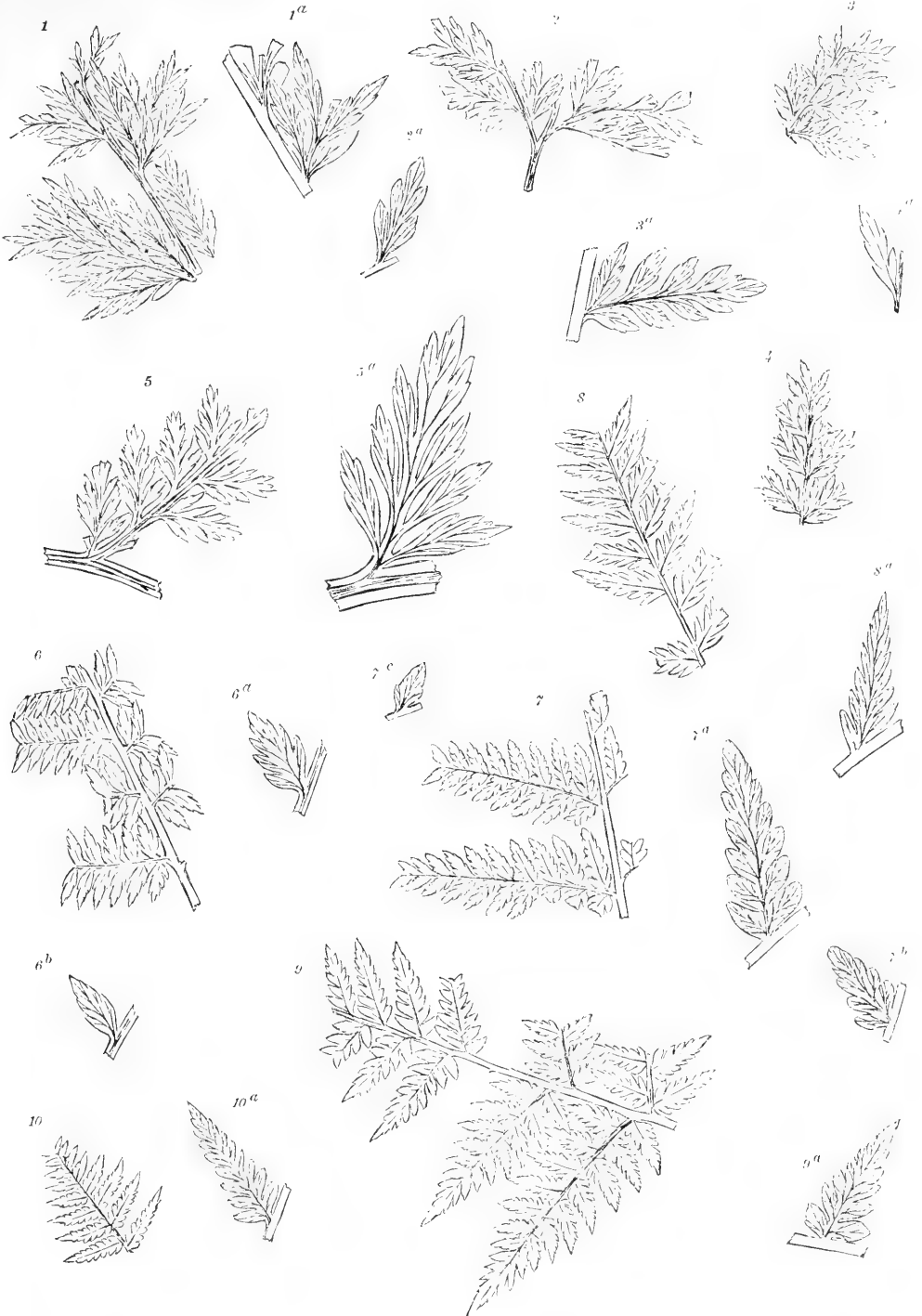


PLATE LIX.

PLATE LIX.

		Page.
FIGS. 1, 4, 8, 9, 11.	OSMUNDA DICKSONIOIDES, sp. nov.	146
	1. Upper part of an ultimate pinna	146
	1 ^a . Pinnule magnified	146
	4. Upper part of a compound pinna	146
	4 ^a . Pinnule magnified	146
	8. Fragment of a compound pinna	146
	8 ^a . Ultimate pinna magnified	146
	9. Portion of a compound pinna	146
	9 ^a . Ultimate pinna magnified	146
	11. Summit of a penultimate pinna	146
	11 ^a . Ultimate pinna magnified	146
	FIGS.	2, 12. ASPIDIUM MICROCARPUM, sp. nov.
2. Portion of a sterile compound pinna		103
2 ^a . Pinnules magnified		103
12. Summit of a fertile compound pinna		103
FIG.	3. THYRSOPTERIS SQUARROSA, sp. nov.	143
	3. Fragment of a compound pinna	143
	3 ^a . Pinnules magnified	143
	5. Fern in circinate vernation	143
	6, 7. THYRSOPTERIS RHOMBILOBA, sp. nov.	144
FIGS.	6, 7. Fragments of compound pinna	144
	6 ^a . Magnified ultimate pinna of 6	144
	7 ^a . Lower pinnule of 7 magnified	144
	7 ^b . Upper pinnule of 7 magnified	144
	10. THYRSOPTERIS RETUSA, sp. nov.	144
FIG.	10. Portion of the frond	144
	10 ^a . Lower pinnule magnified	144
	10 ^b . Upper pinnule magnified	144
	10 ^c . Tip of an ultimate pinna magnified	144

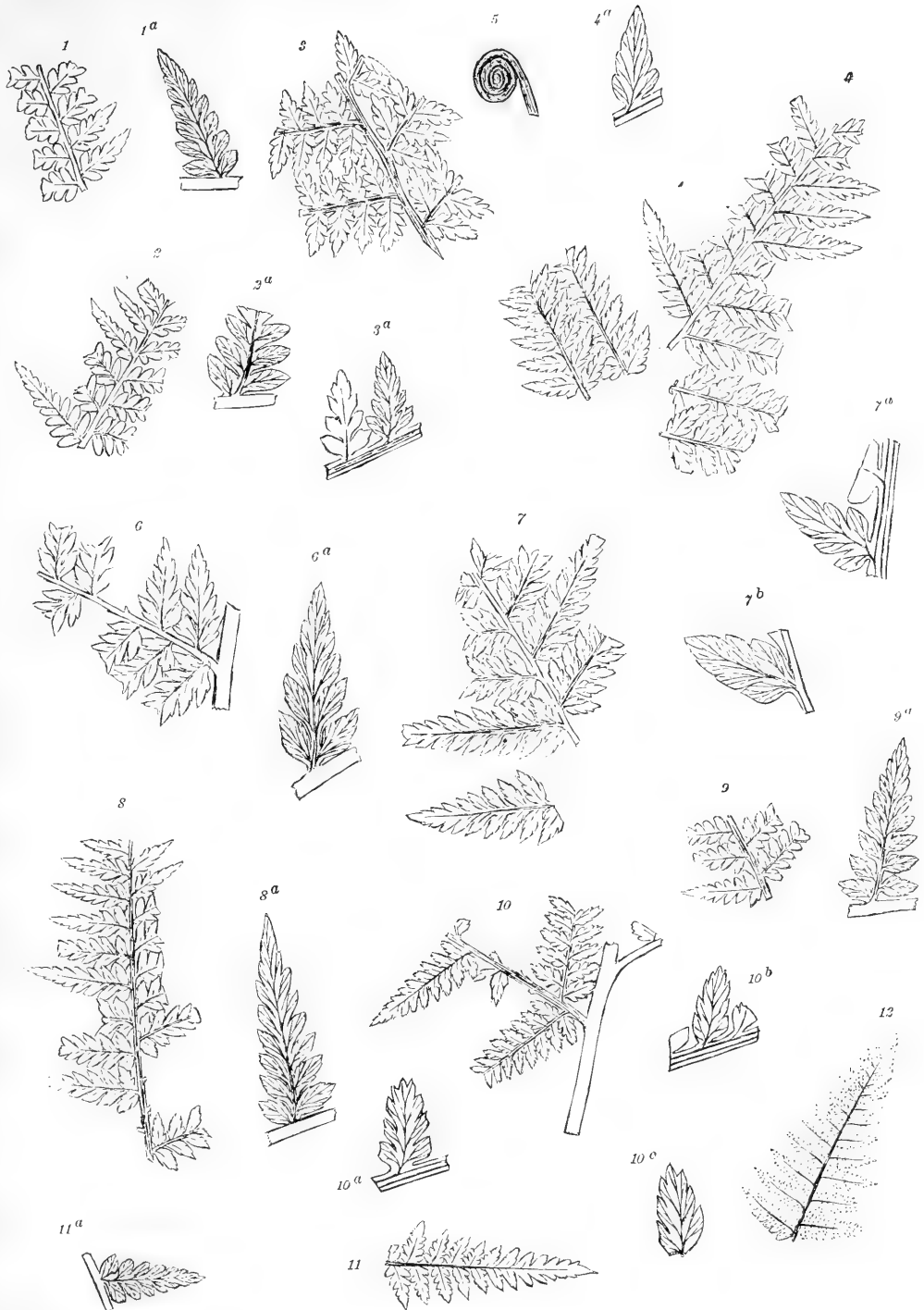


PLATE LX.

PLATE LX.

	Page.
FIGS. 1, 3. <i>OSMUNDA DICKSONIODES</i> , var. <i>LATIPENNIS</i> , sp. nov	147
1. Fragment of a large primary pinna or of the frond	147
1 ^a . Pinnule magnified	147
3. Upper part of a compound pinna	147
3 ^a . Ultimate pinna magnified	147
FIGS. 2, 4, 5, 9. <i>OSMUNDA DICKSONIODES</i> , sp. nov	146
2. Upper part of a compound pinna	146
2 ^a . Ultimate pinna magnified	146
4. Summit of a compound pinna	146
4 ^a . Pinna or pinnule magnified	146
5. Summit of a fertile compound pinna	146
5 ^a . Pinnule magnified	146
9. Portion of a compound pinna	146
9 ^a . Ultimate pinna magnified	146
9 ^b . Tip of an ultimate pinna magnified	146
FIGS. 6, 7. <i>ASPIDIUM MICROCARPUM</i> , sp. nov	103
6. Portion of a compound pinna, showing mixed sterile and fertile pinnules	103
6 ^a . Fertile pinnules magnified	103
6 ^b . Sterile and fertile pinnules magnified	103
7. Portion of a fertile compound pinna, showing the outline of the pinnules only in the arrangement of the sori	103
FIG. 8. <i>THYRSOPTERIS RHOMBILOBA</i> , sp. nov	144
8. Small fragment of a compound pinna	144
8 ^a . Pinna or pinnules magnified	144

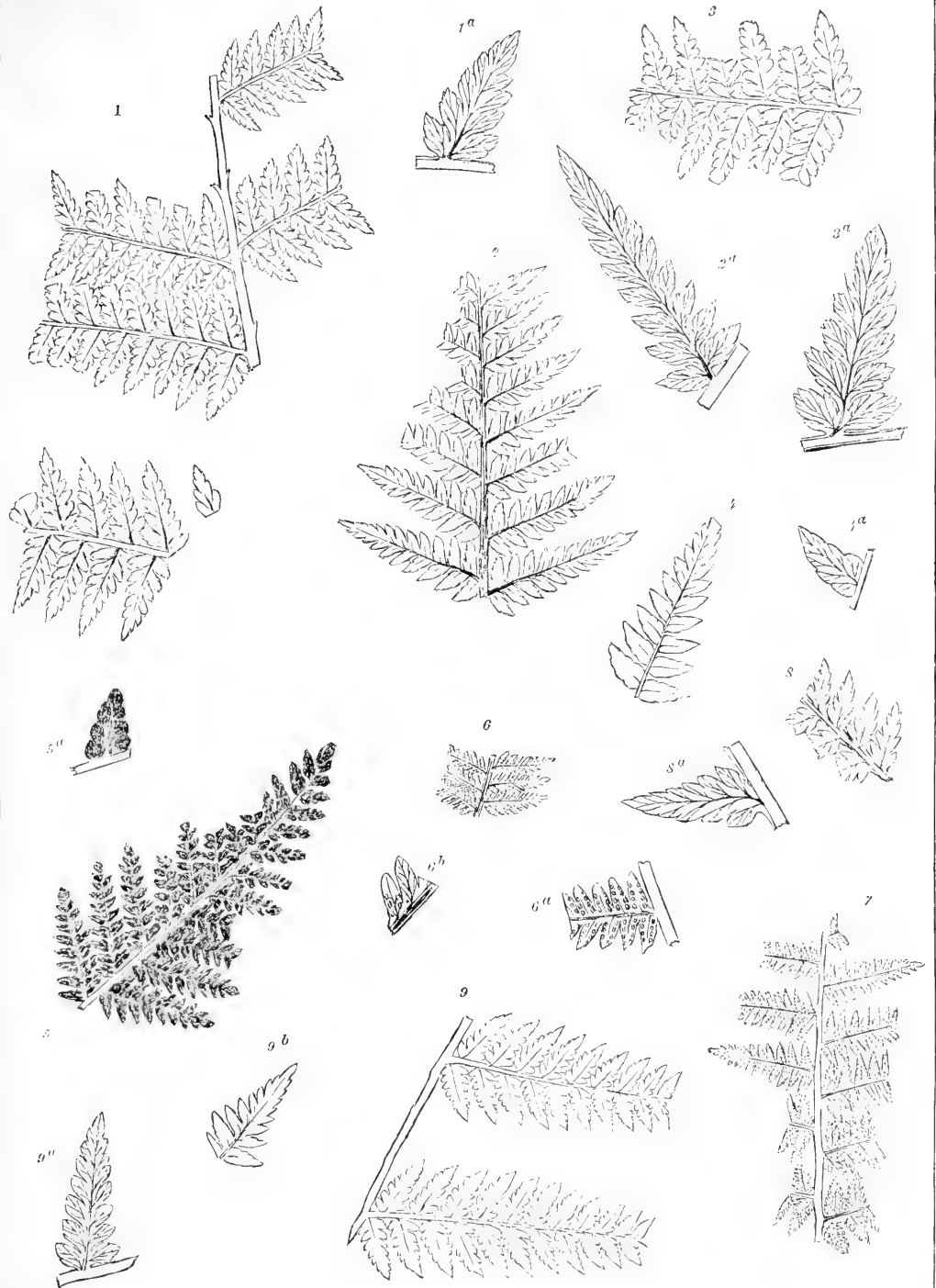


PLATE LXI.

P L A T E L X I .

	Page.
FIGS. 1, 2. <i>OSMUNDA DICKSONIOIDES</i> , sp. nov	146
1. Upper part of a compound pinna	146
1 ^a . Lower pinnule magnified	146
1 ^b . Upper pinnule magnified	146
2. Upper part of a compound pinna	146
2 ^a . Ultimate pinna magnified	146
FIG. 3. <i>OSMUNDA DICKSONIOIDES</i> , var. <i>LATIPENNIS</i> , sp. nov.	147
3. Upper portion of a compound pinna	147
3 ^a . Lower pinnules or lobes magnified	147
3 ^b . Upper ultimate pinna magnified	147
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4. Portion of an ultimate pinna, with somewhat abnormal pinnules	156
4 ^a . Pinnule magnified	156
5. Tip of an ultimate pinna	156
FIG. 6. Undetermined plant	156
6 ^a . Portion magnified	156
FIG. 7. <i>ZAMIOPSIS PINNATIFIDA</i> , sp. nov	161
7. Portion of a compound pinna	161
FIG. 8. <i>ZAMIOPSIS LONGIPENNIS</i> , sp. nov.	164
8. Upper part of a pinnule	164

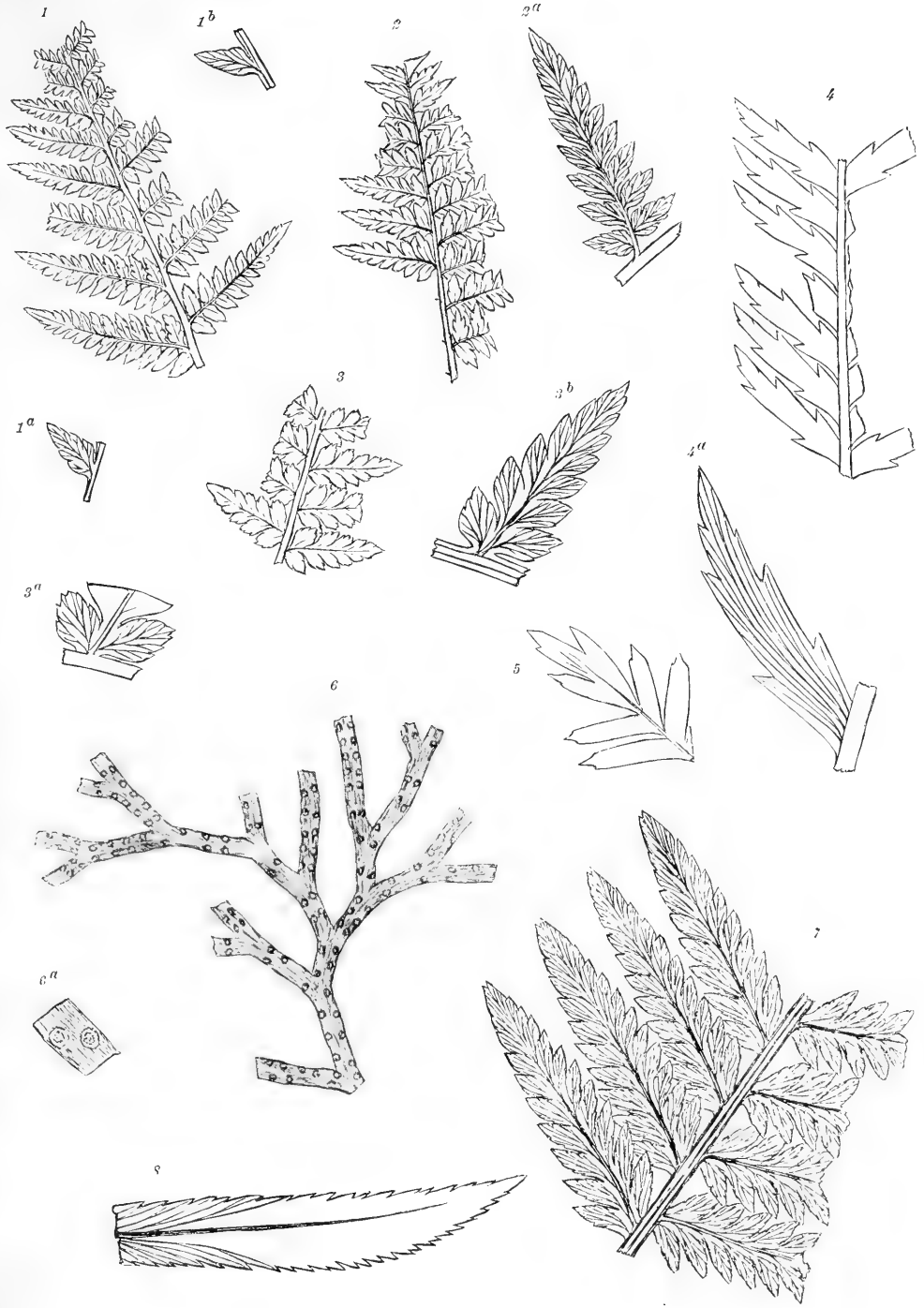


PLATE LXII.

PLATE LXII.

	Page.
FIG. 1. CTENOPTERIS INSIGNIS, sp. nov.	156
1. Portion of a large compound pinna or of the frond.	156
1 ^a . Pinnule magnified.	156
FIG. 2. CTENOPTERIS INTEGRIFOLIA, sp. nov.	158
2. Small fragment of an ultimate pinna.	158
FIG. 3. ZAMIOPSIS INSIGNIS, sp. nov.	162
3. Portion of an ultimate pinna.	162
FIG. 4. CTENOPTERIS VIRGINIENSIS, sp. nov.	157
4. Portions of two ultimate pinnae with unusually narrow pinnules.	157
4 ^a . Pinnule magnified.	157
FIG. 5. ZAMIOPSIS PINNATIFIDA, sp. nov.	161
5. Summit of a compound pinna.	161

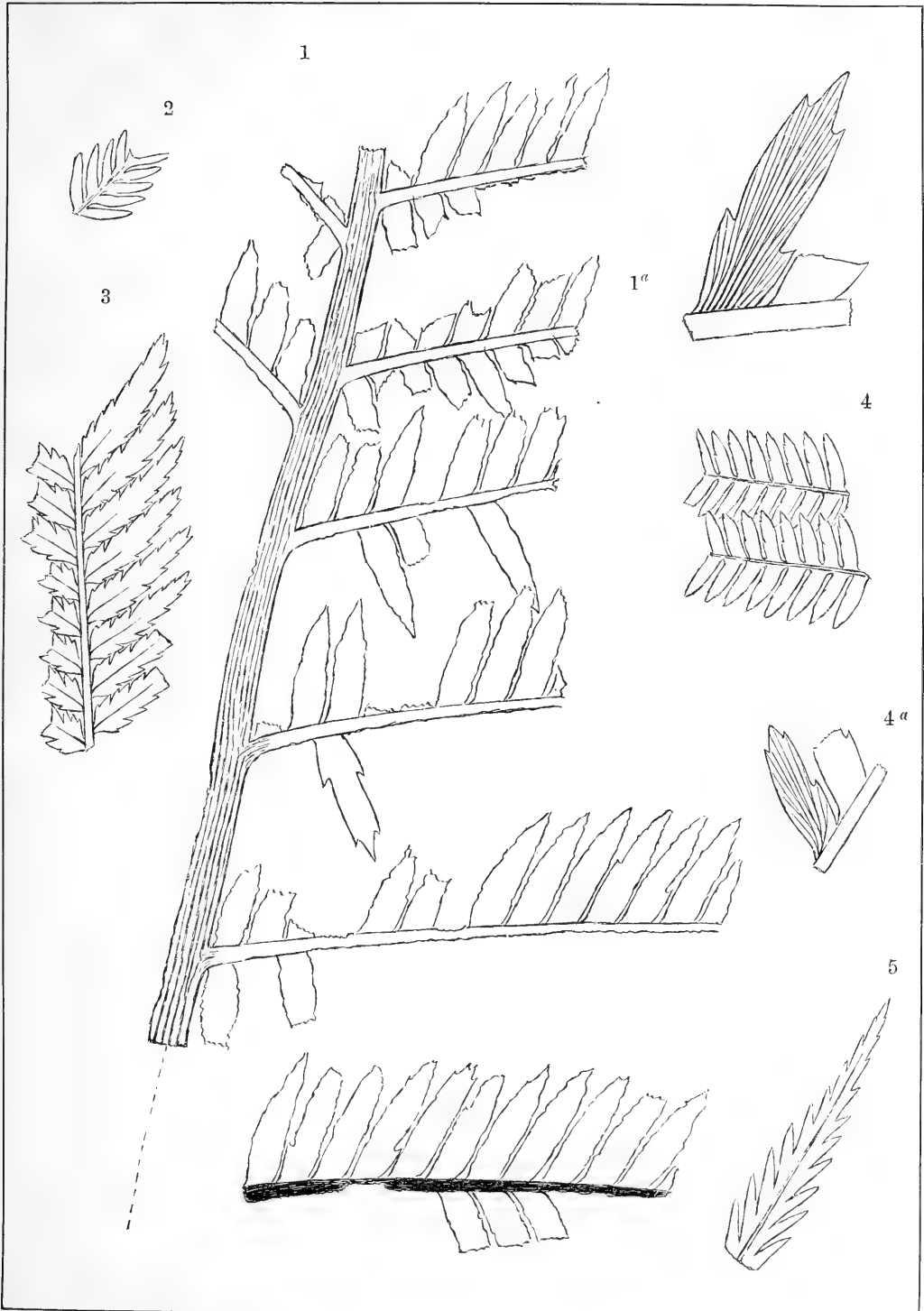


PLATE LXIII.

PLATE LXIII.

	Page.
FIGS. 1, 2. CTENOPTERIS INSIGNIS, sp. nov	156
1. Large fragment of a compound pinna partly restored.....	156
2. Fragment of an ultimate pinna	156
FIGS. 3, 4. SCLEROPTERIS DENTATA	153
3. Tip of an ultimate pinna.....	153
4. Portions of two ultimate pinna	153
4 ^a . Pinnule magnified.....	153

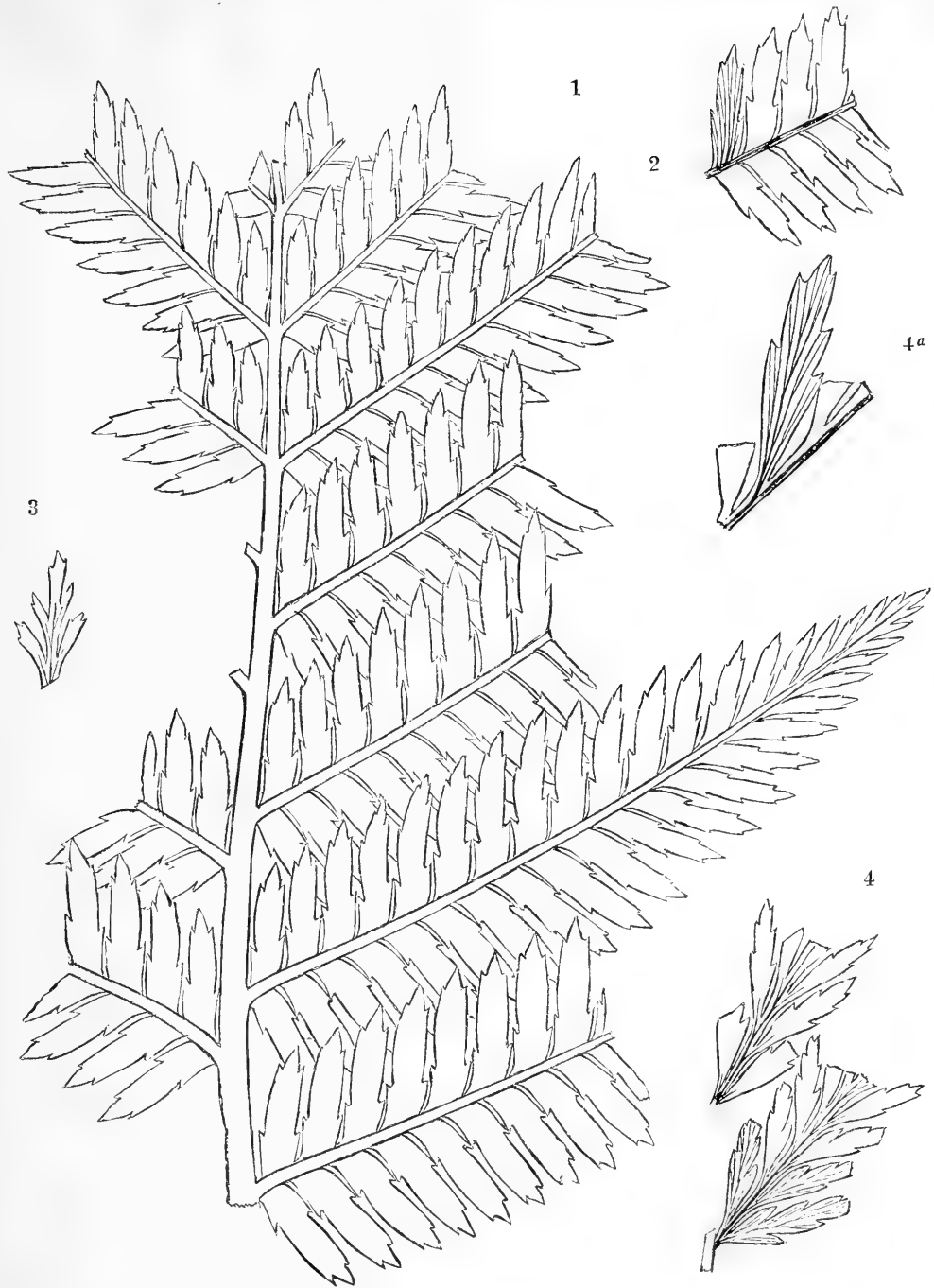


PLATE LXIV.

PLATE LXIV.

	Page.
FIGS. 1, 3. ZAMIOPSIS INSIGNIS, sp. nov	162
1. Portion of a large compound pinna or of the frond	162
1 ^a . Lower pinnule magnified	162
1 ^b . Upper pinnule magnified	162
3. Portion of a compound pinna slightly restored	162
FIG. 2. ZAMIOPSIS PINNATIFIDA, sp. nov	161
2. Portion of a compound pinna	161
2 ^a . Pinnules or lobes magnified	161

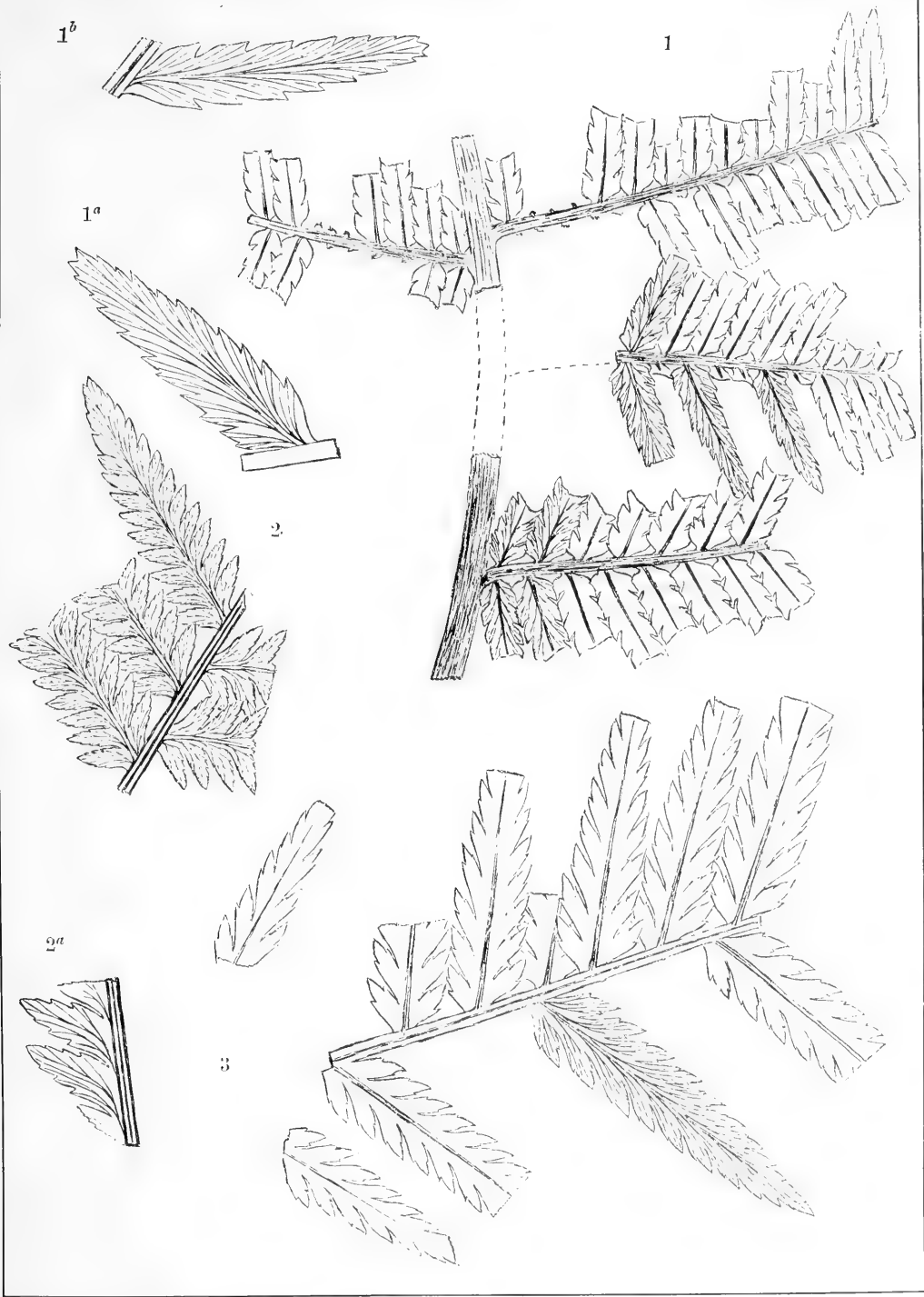


PLATE LXV.

P L A T E L X V .

		Page.
FIG.	1. CTENOPTERIS VIRGINIENSIS, sp. nov.	157
	1. Fragment of a compound pinna slightly restored	157
FIG.	2. CTENOPTERIS ANGUSTIFOLIA, sp. nov.	159
	2. Fragment of an ultimate pinna	159
	2 ^a . Pinnule magnified	159
FIG.	3. CTENOPTERIS INTEGRIFOLIA, sp. nov.	158
	3. Fragment of the upper part of a compound pinna	158
	3 ^a . Pinnule magnified	158
FIGS. 4-6.	ZAMIOPSIS INSIGNIS, sp. nov.	162
	4. Fragment of the upper part of a compound pinna slightly restored	162
	5. Fragment of the lower part of a compound pinna	162
	5 ^a . Pinnules enlarged	162
	6. Upper part of an ultimate pinna	162

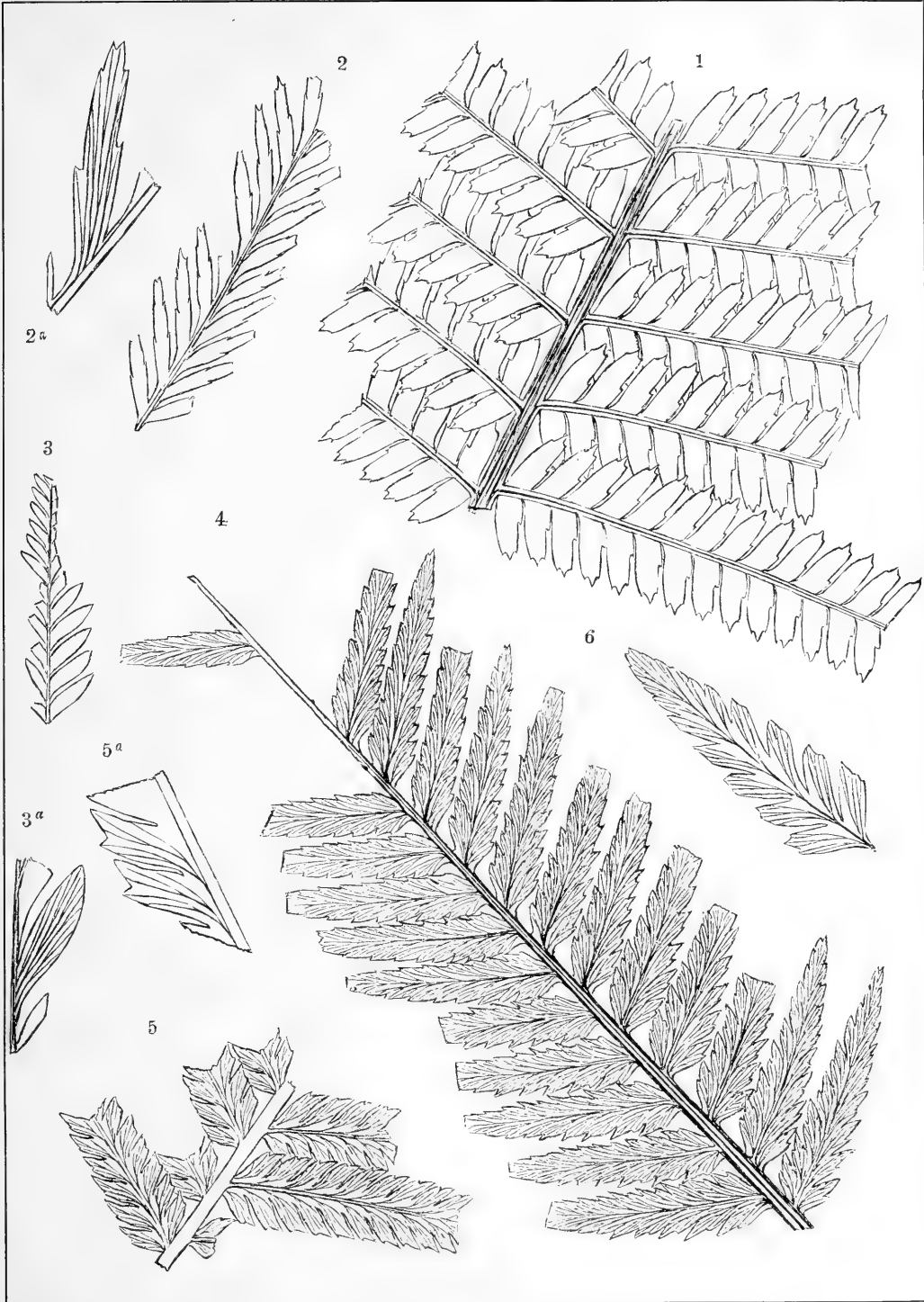


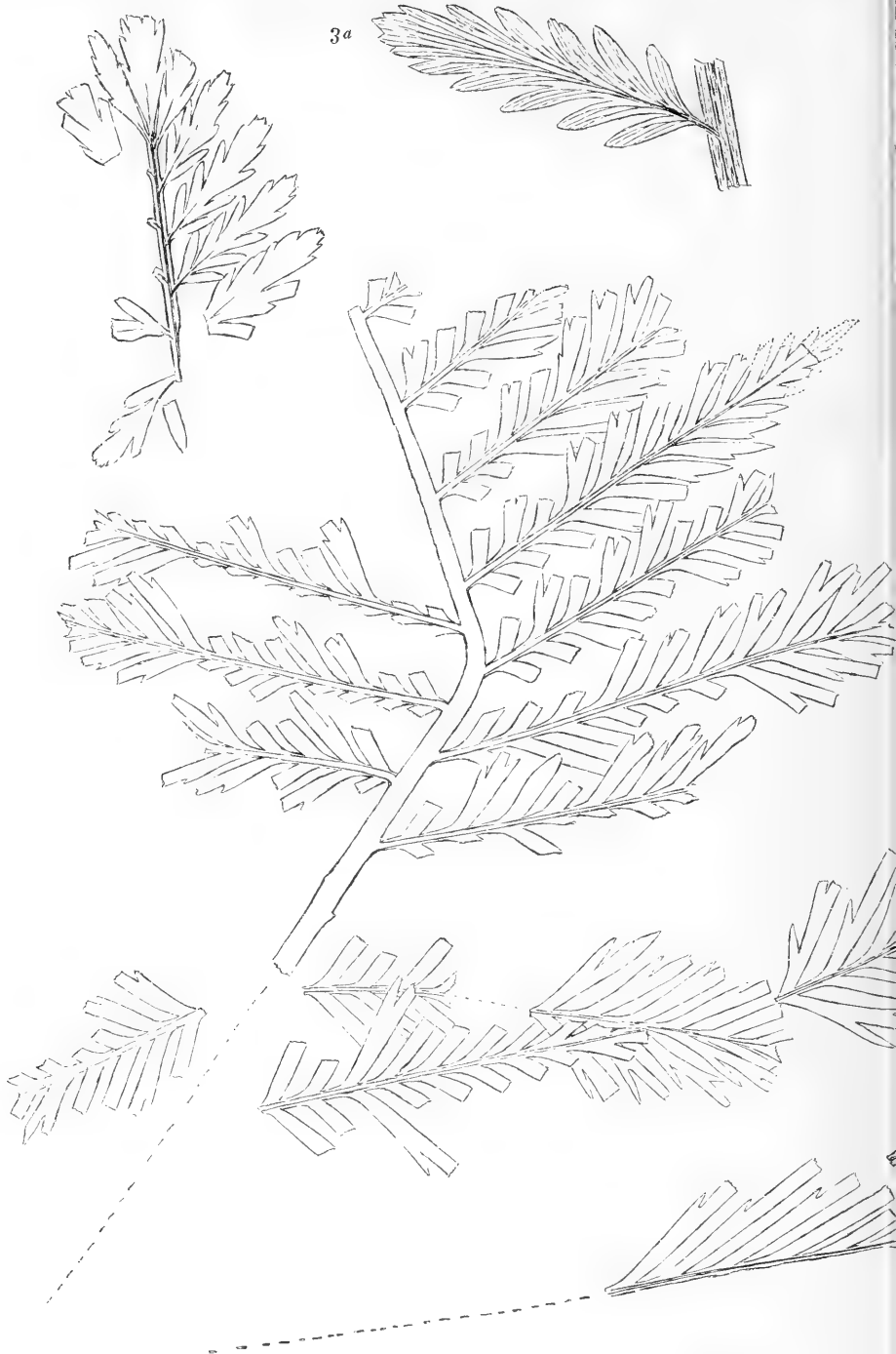
PLATE LXVI.

P L A T E L X V I .

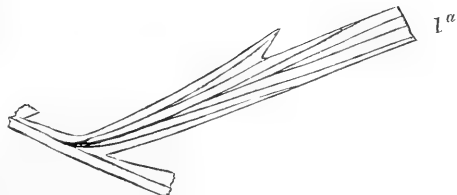
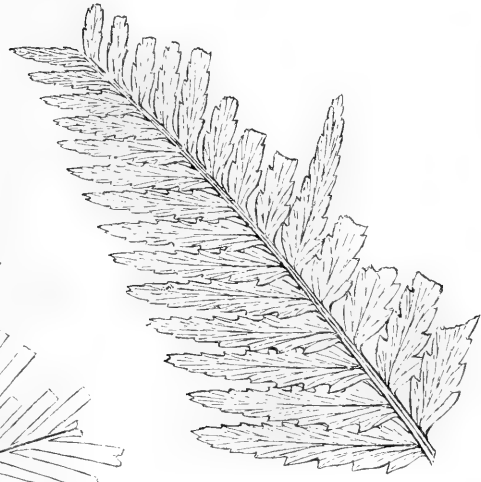
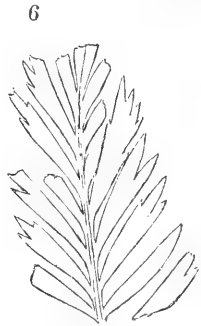
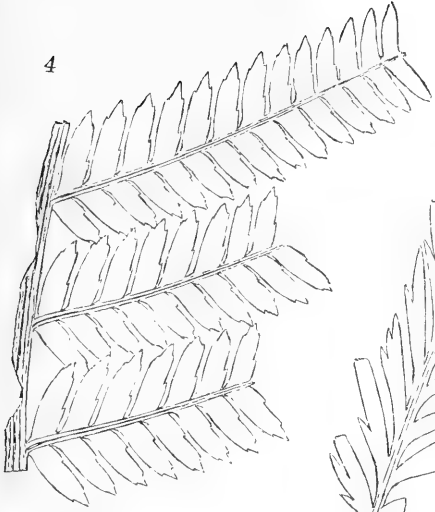
		Page.
FIGS. 1, 5-8.	ZAMIOPSIS LACINIATA, sp. nov.	164
	1. Portion of a large primary pinna or of the frond	164
	1 ^a . Portion of a long pinnule magnified	164
	1 ^b . Short pinnule magnified	164
	5. Upper part of an ultimate pinna	164
	5 ^a . Pinnule magnified	164
	6. Upper part of an ultimate pinna	164
	7, 8. Two tips of ultimate pinnae	164
FIG.	2. ZAMIOPSIS INSIGNIS, sp. nov.	162
	2. Upper portion of an ultimate pinna	162
FIG.	3. ZAMIOPSIS PETIOLATA, sp. nov.	166
	3. Summit of an ultimate pinna	166
	3 ^a . Pinnule magnified	166
FIG.	4. CTENOPTERIS VIRGINIENSIS, sp. nov.	157
	4. Portion of a compound pinna	157

3

3^a



1

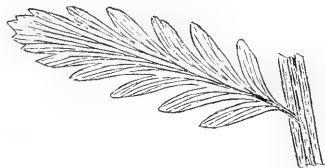




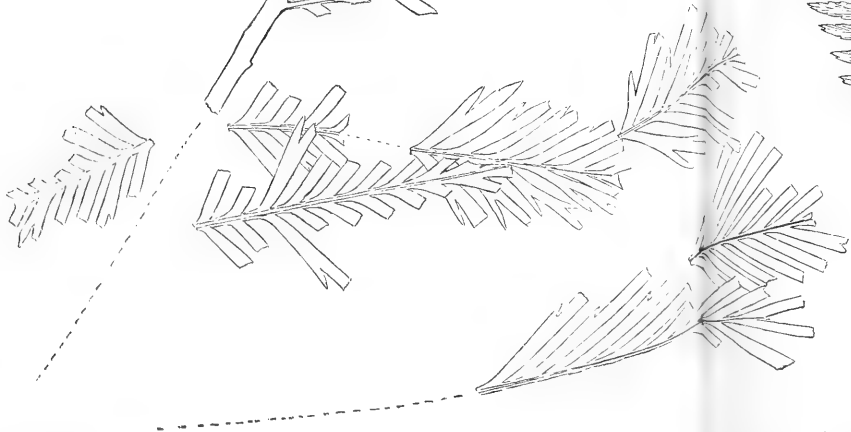
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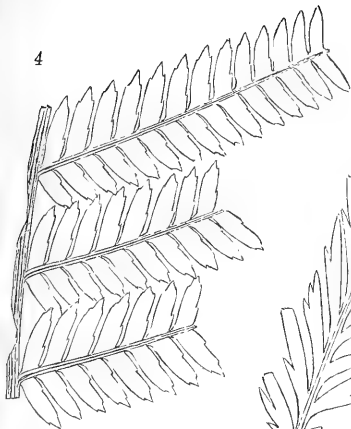
3^a



1



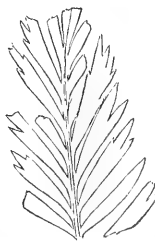
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6



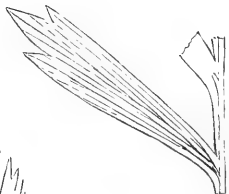
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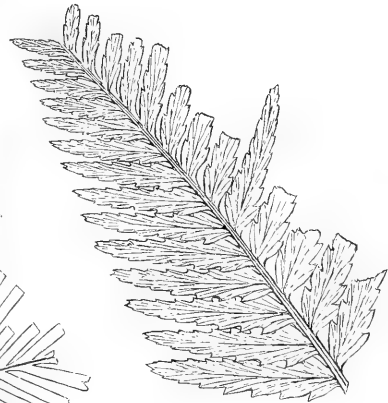
7



6^a



1^b



1^a

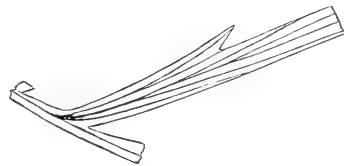


PLATE LXVII.

PLATE LXVII.

	Page.
FIG. 1. ZAMITES TENUINERVIS, sp. nov.	171
1. Basal portion of a leaflet of large size	171
FIG. 2. ZAMIOPSIS PINNATIFIDA, sp. nov.	161
2. Tip of a pinna?	161
FIG. 3. CTENOPTERIS MINOR, sp. nov.	157
3. Portion of a frond with pinnules fragmentary from maceration	157
3a-3c. Pinnules of 3 and of other fragments, magnified to show variation in teeth	157
FIG. 4. CTENOPTERIS ANGUSTIFOLIA, sp. nov.	159
4. Fragment of an ultimate pinna	159
4a. Pinnule magnified	159
FIG. 5. CTENOPTERIS LONGIFOLIA, sp. nov.	159
5. Fragment of an ultimate pinna	159
5a. Portion of a pinnule magnified	159
FIG. 6. DIOONITES BUCHIANUS, var. ANGUSTIFOLIUS, Schimper, sp.	185
6. Summit of a leaf with very remote leaflets	185
FIG. 7. ZAMIOPSIS INSIGNIS, sp. nov.	162
7. Fragment of a very large pinnule	162

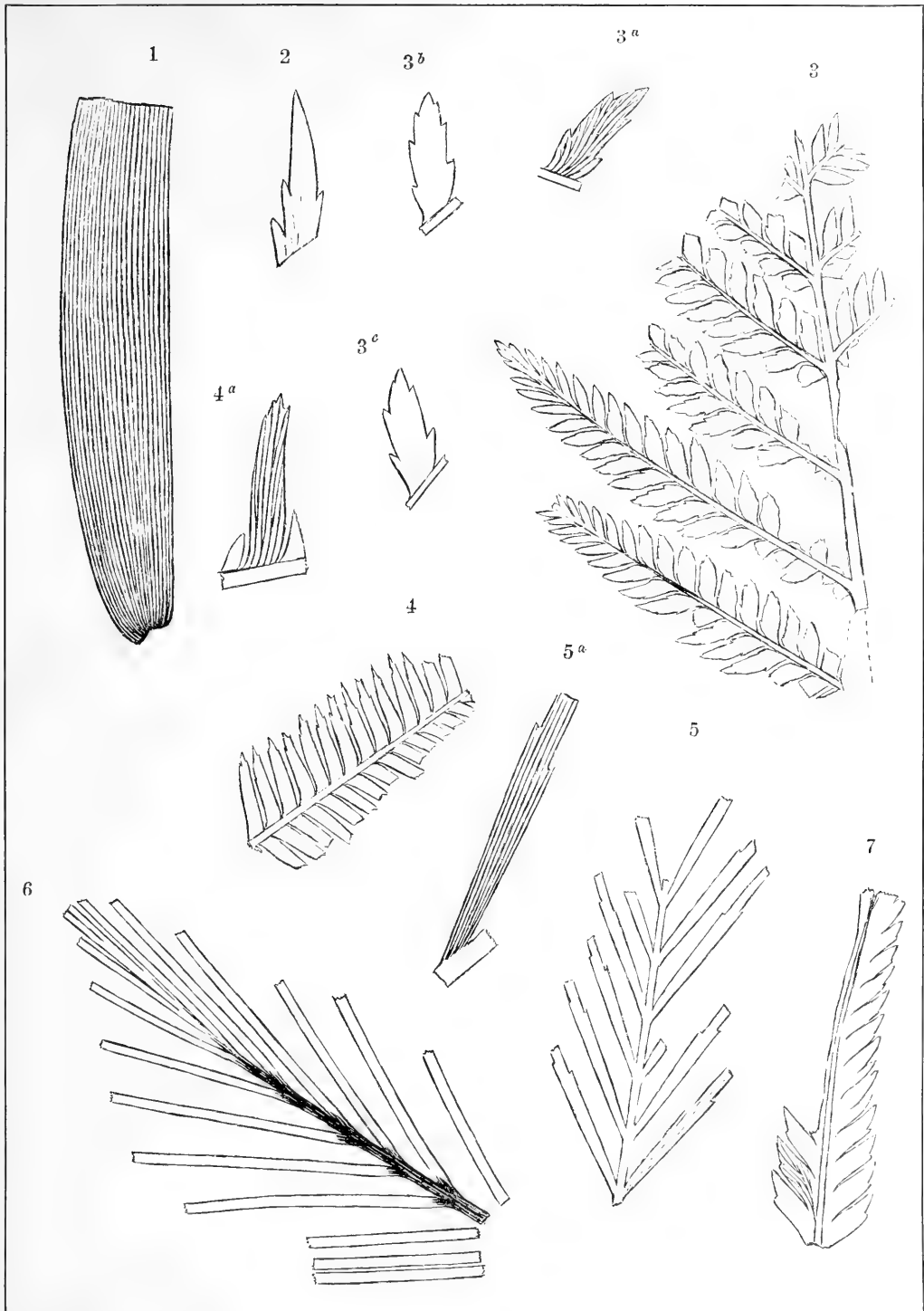
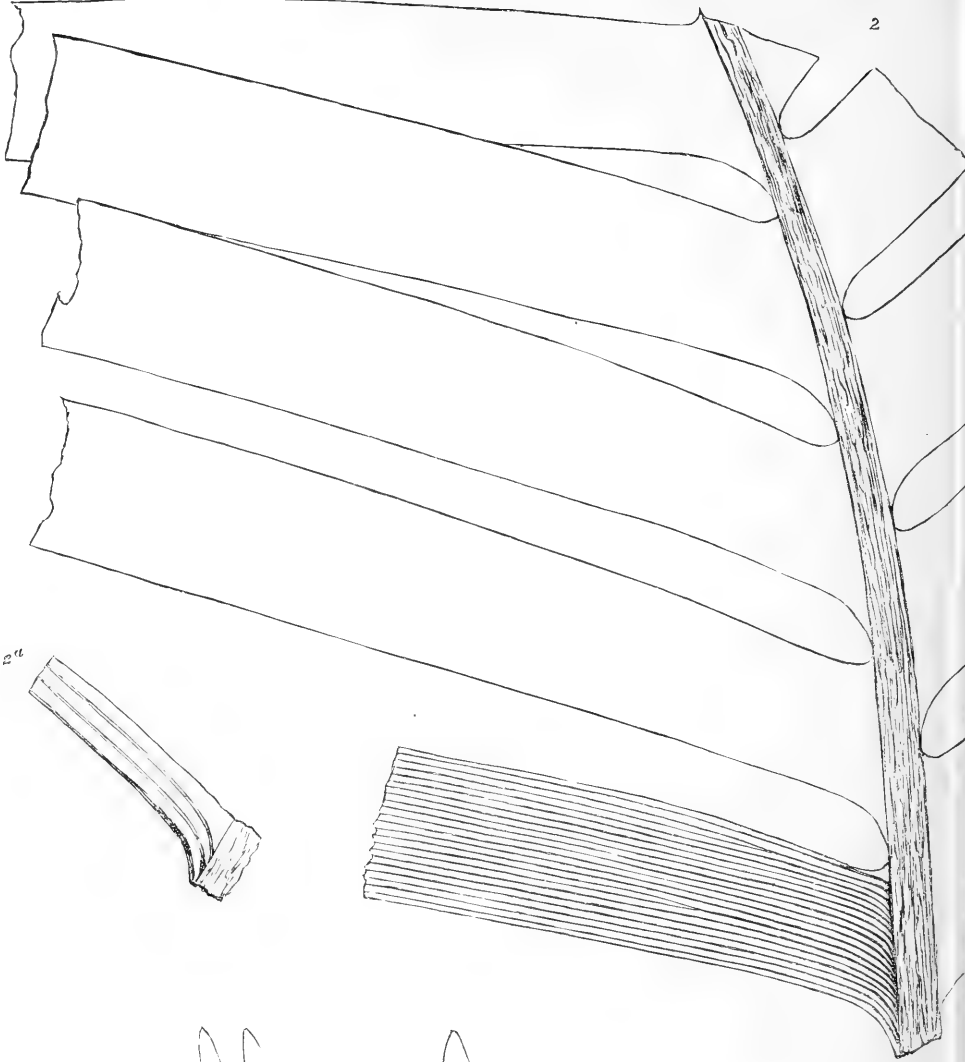


PLATE LXVIII.

PLATE LXVIII.

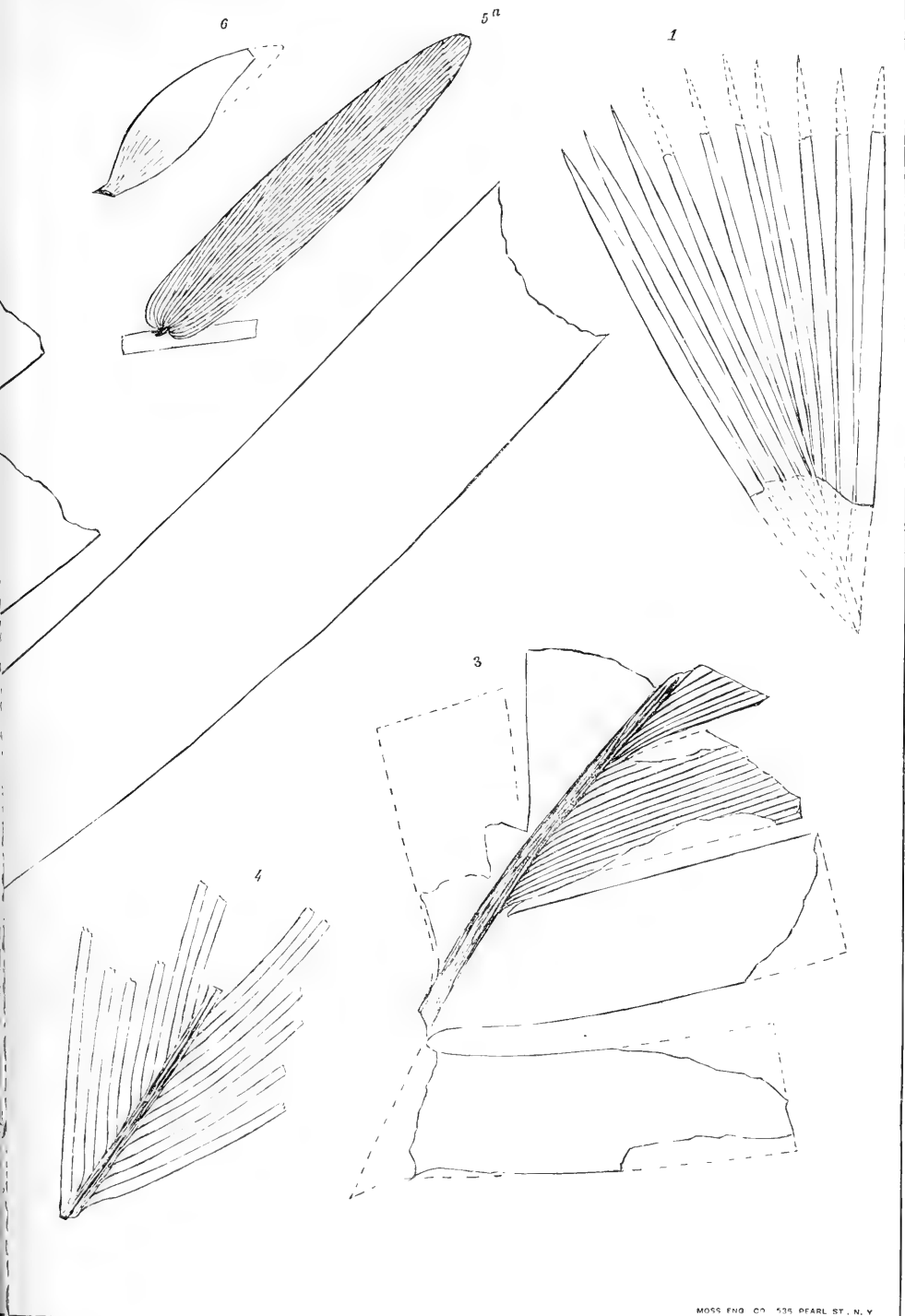
		Page.
FIG.	1. <i>DIOONITES BUCHANUS</i> Schimper	182
	1. Summit of a leaf	182
FIGS.	2, 3. <i>CTENOPHYLLUM LATIFOLIUM</i> , sp. nov.	175
	2. Portion of a leaf slightly restored	175
	2 ^a . Portion of a leaflet magnified to show the nerve-bundles	175
	3. Upper portion of a leaf corresponding to 2.	175
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	5. Detached leaflets, and leaflets attached to the midrib	176
	5 ^a . Leaflet magnified	176
FIG.	6. <i>PODOZAMITES SUBFALCATUS</i>	179
	6. Leaflet showing a portion of the stem still attached	179



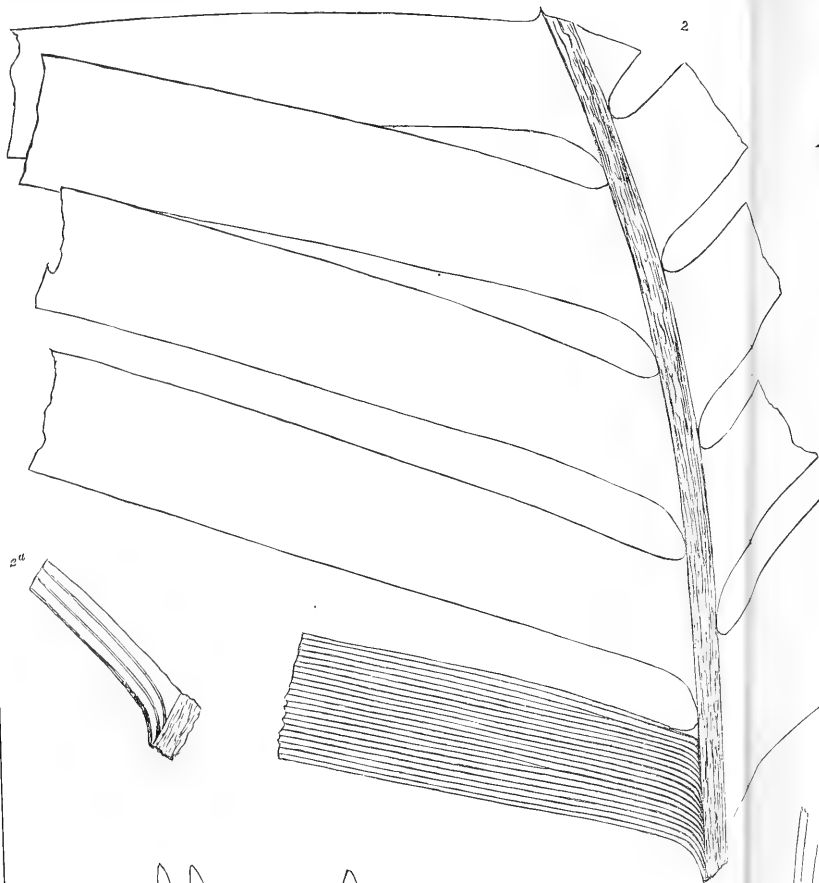
2'



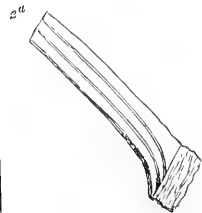
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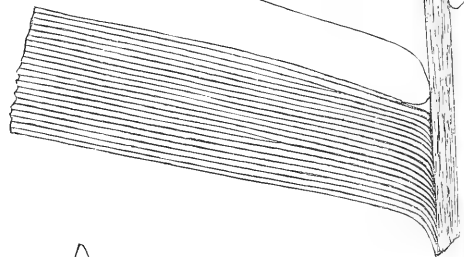




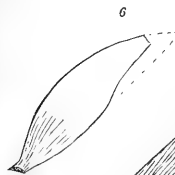
2



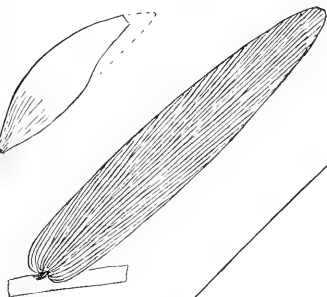
2^a



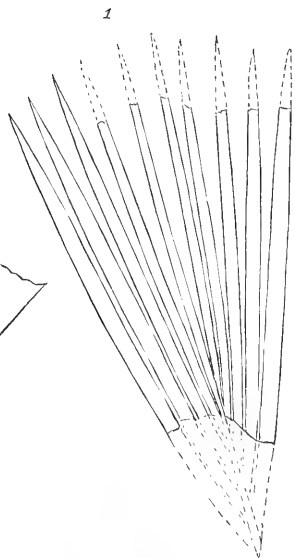
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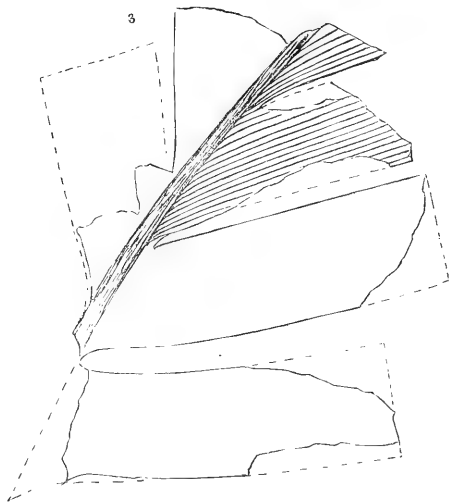
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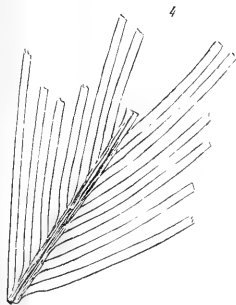
5^a



1



3



4

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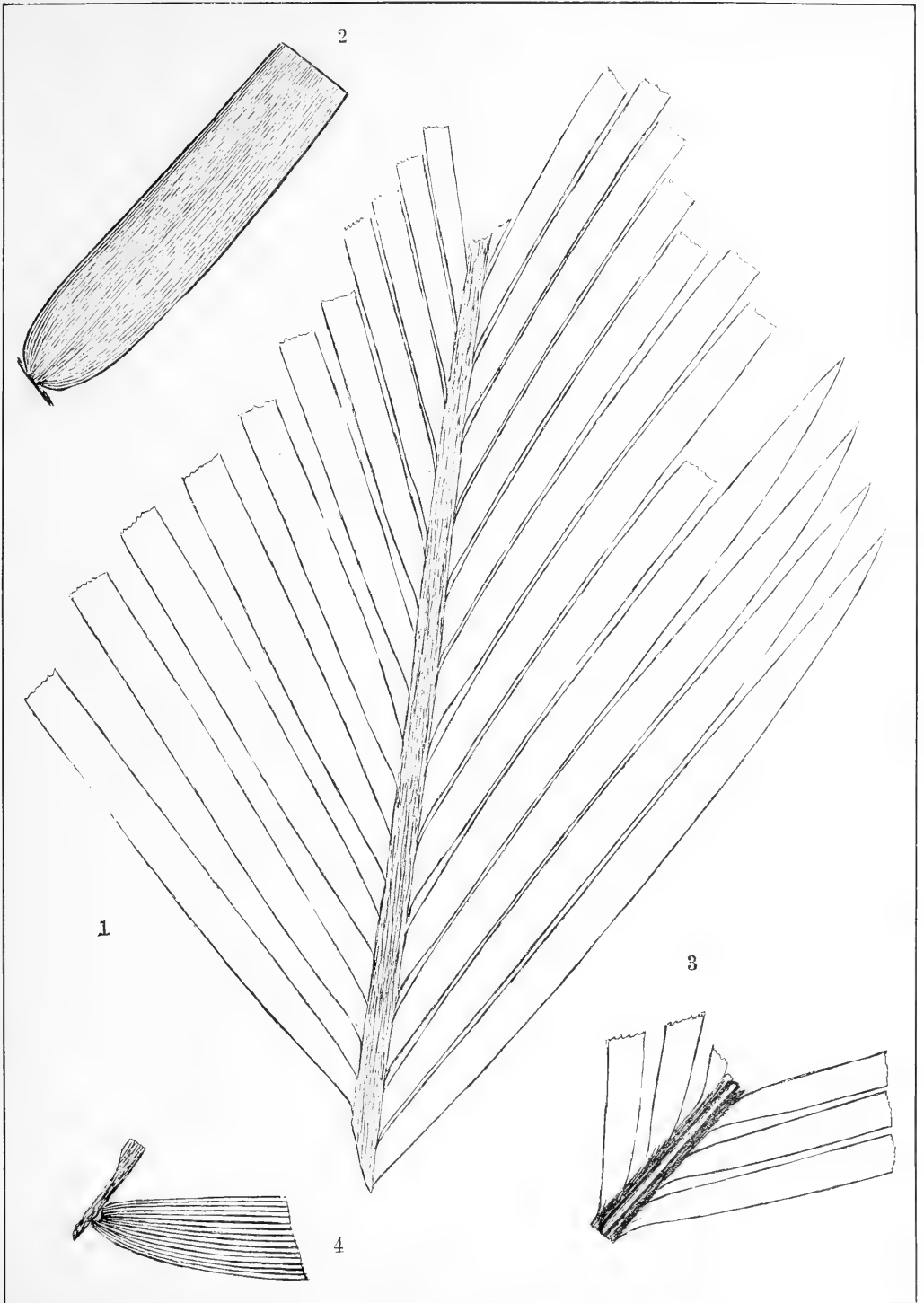




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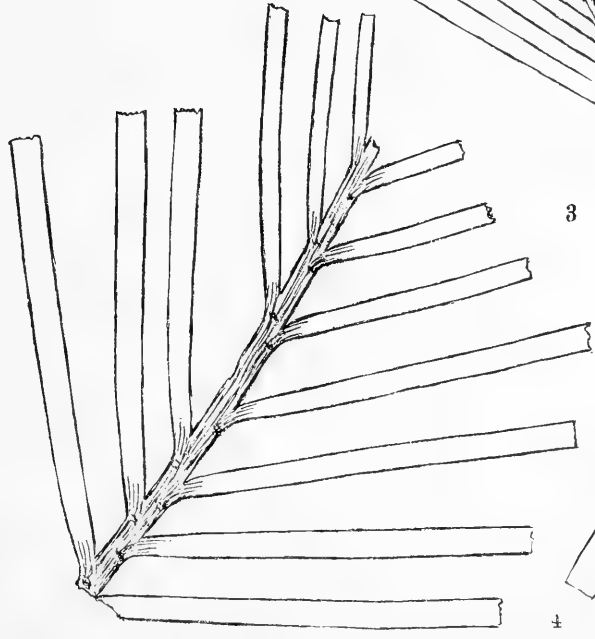
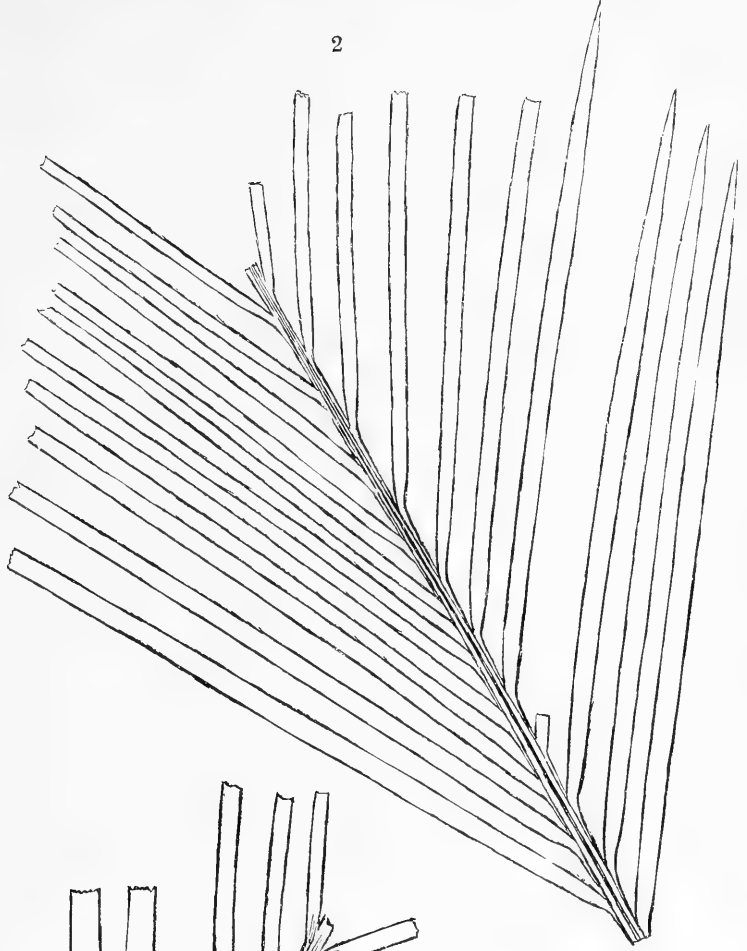




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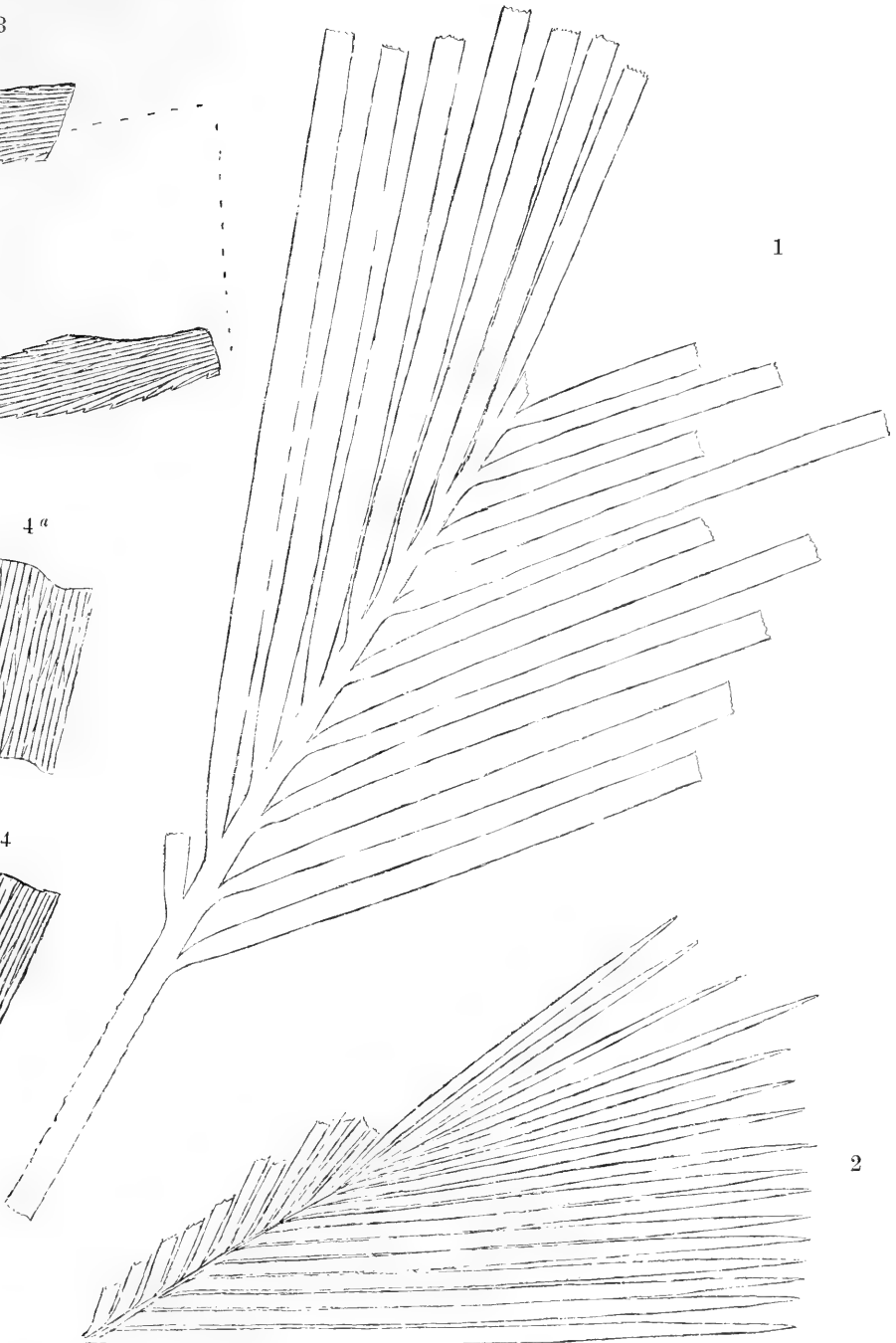
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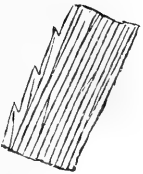
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4''



4



2

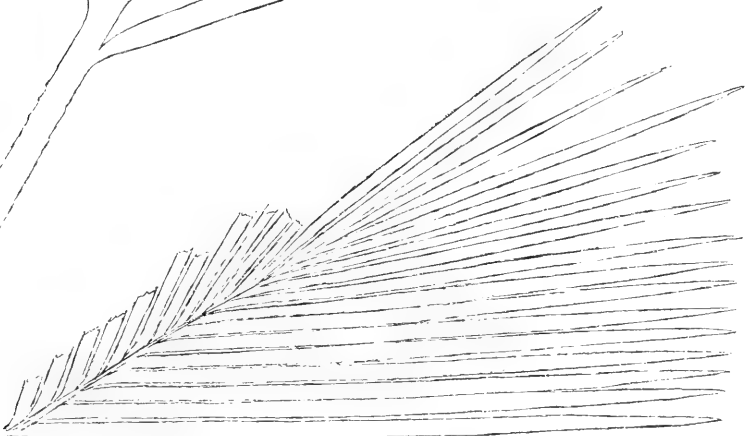




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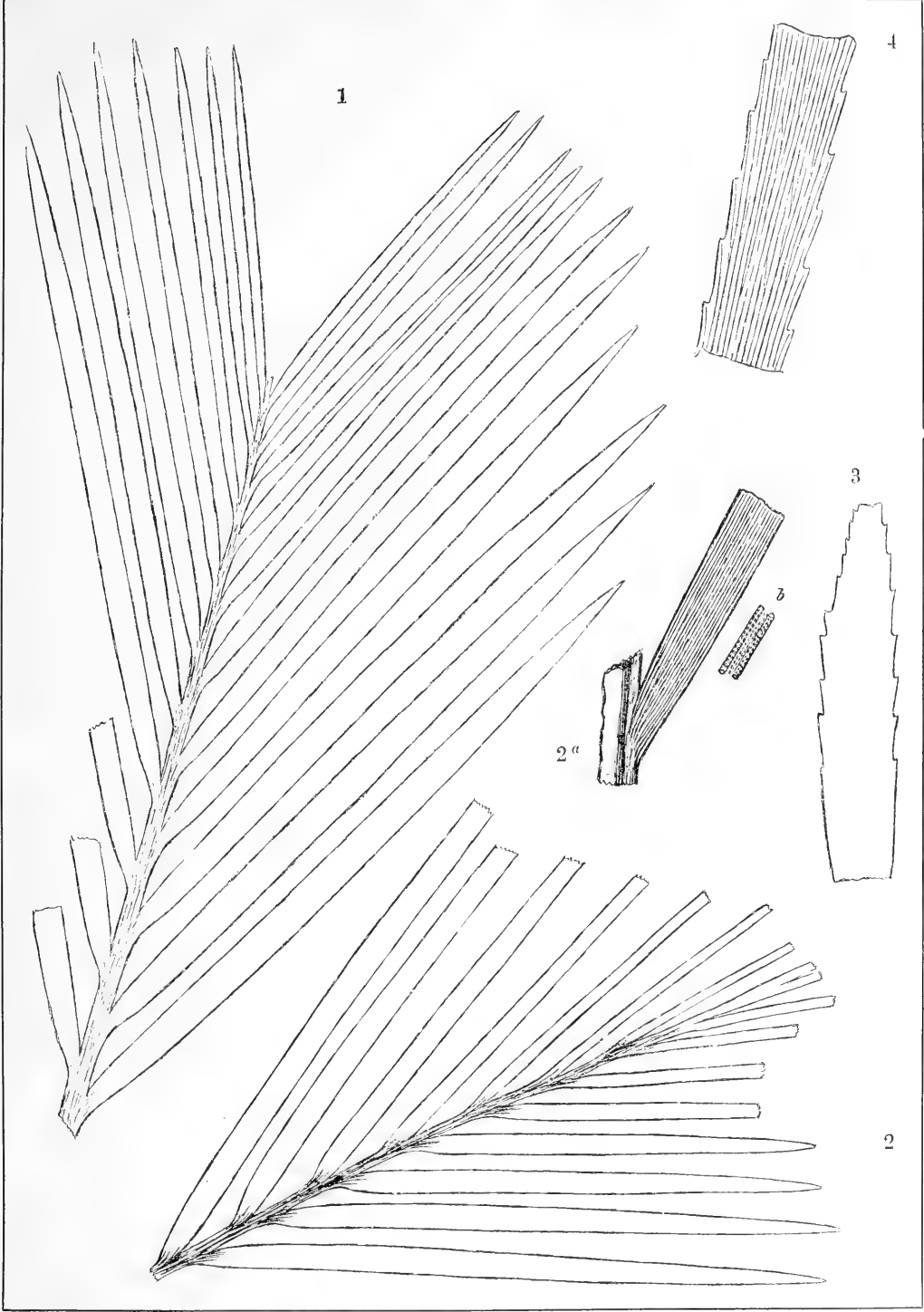
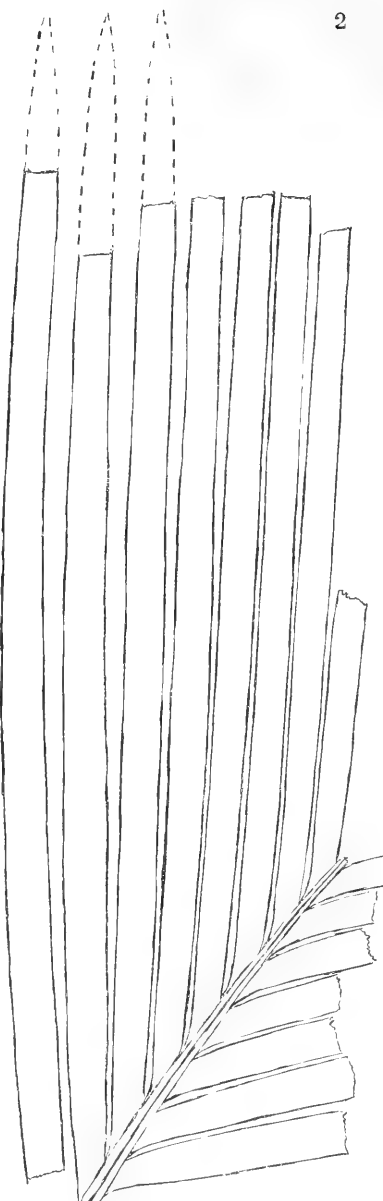


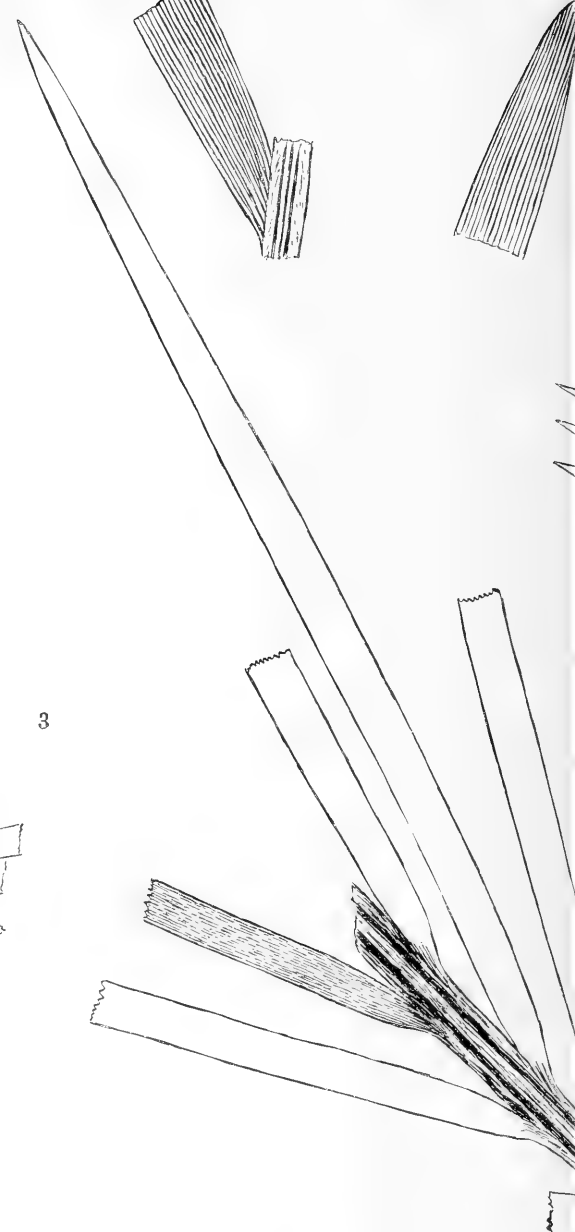
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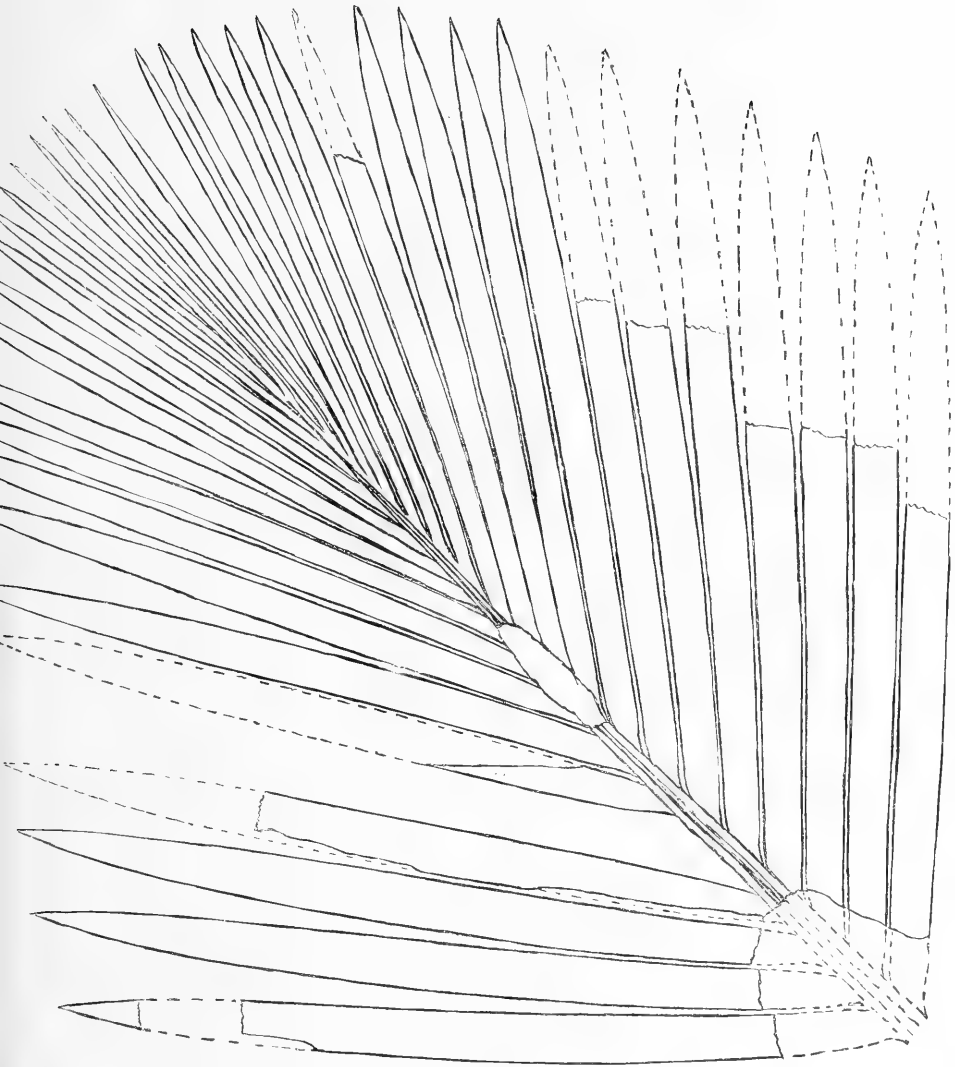


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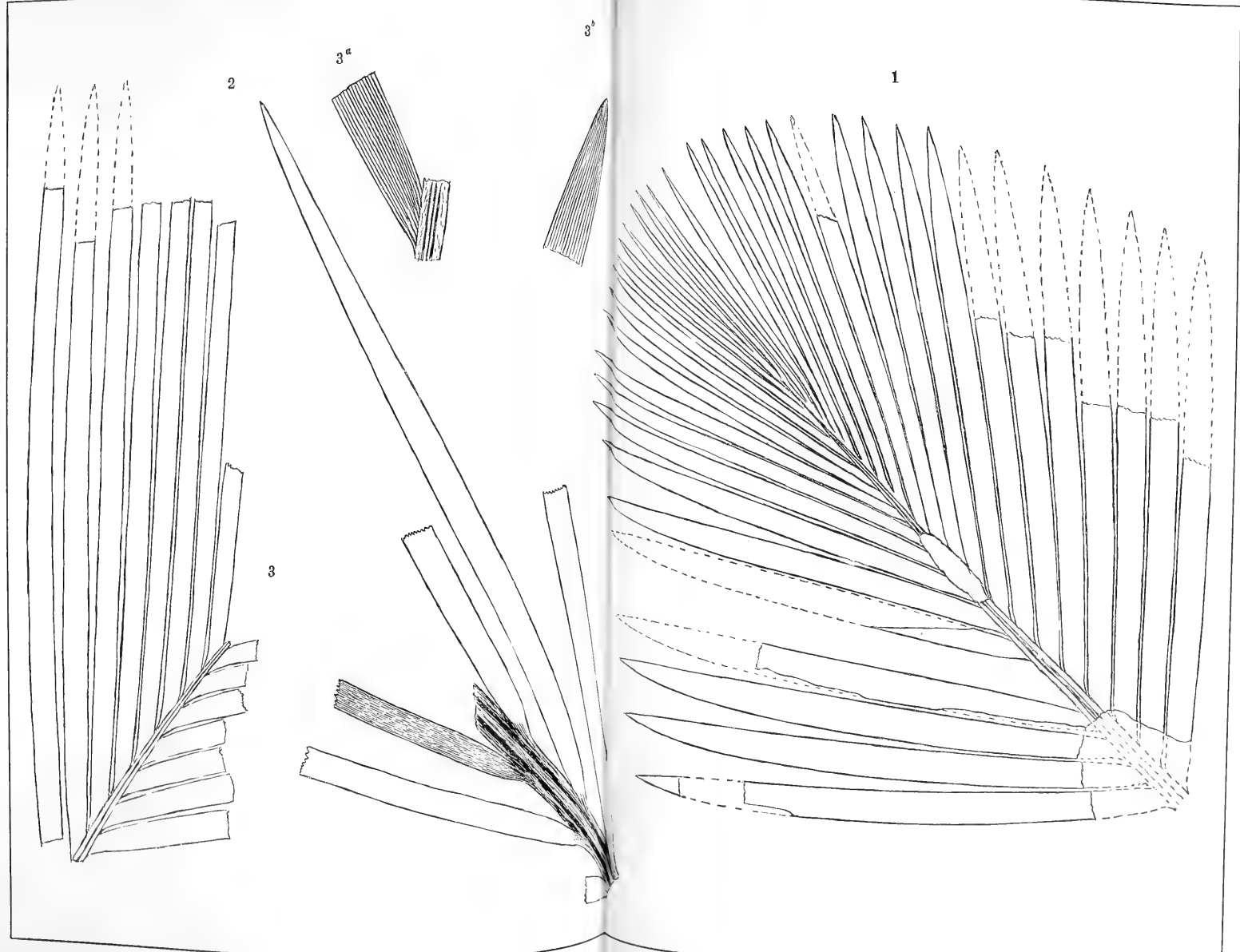
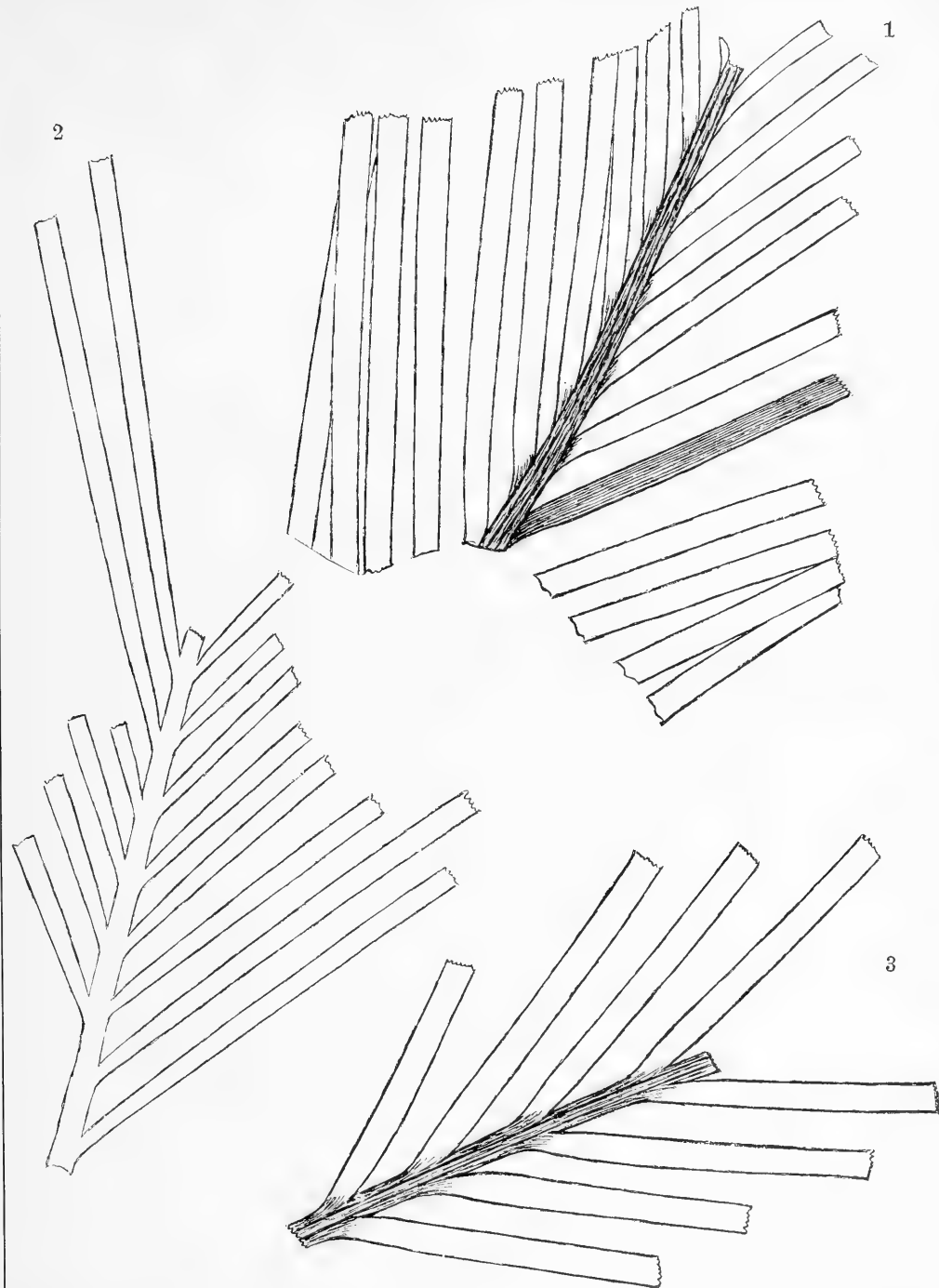




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2

1

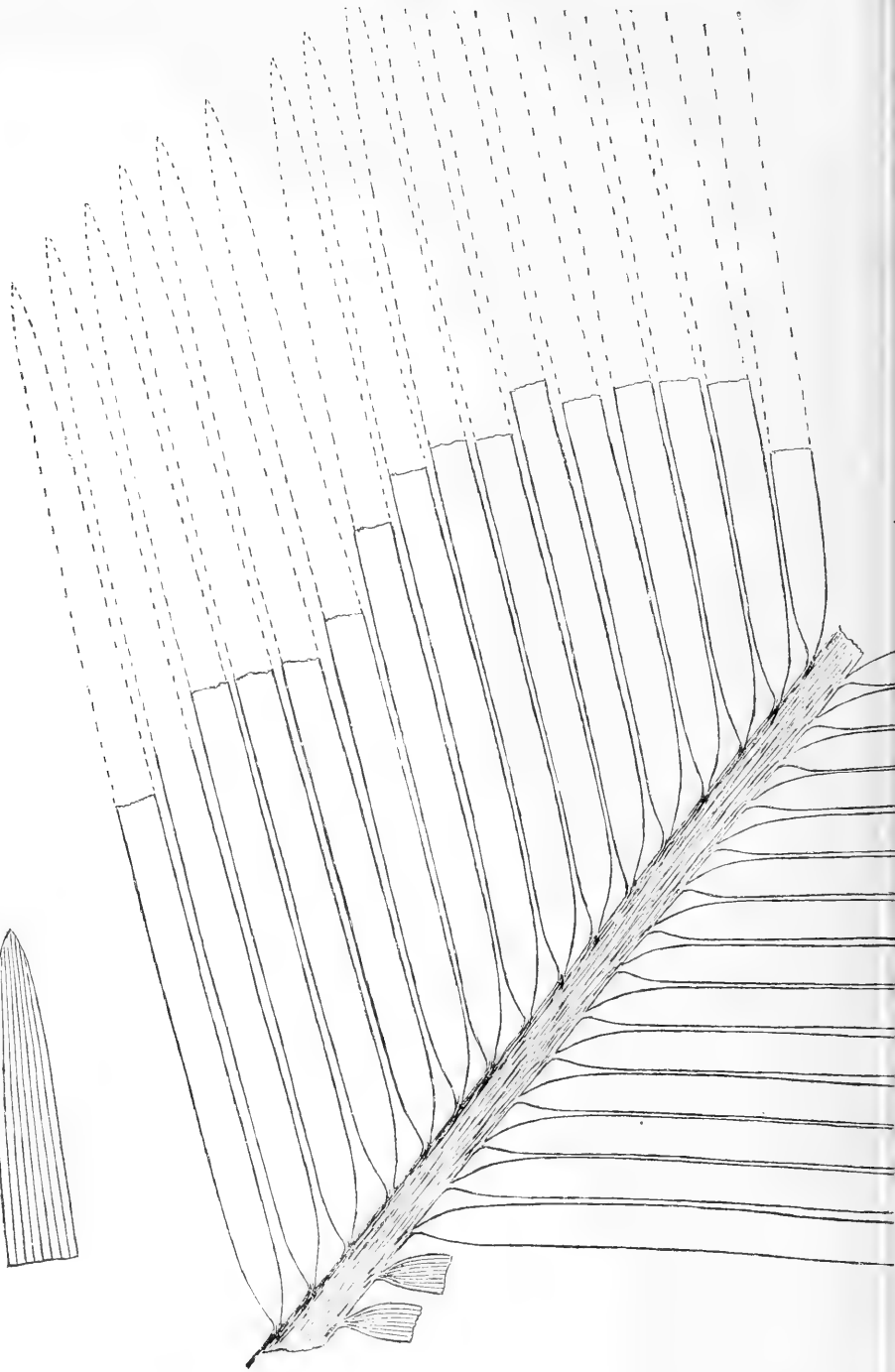
3

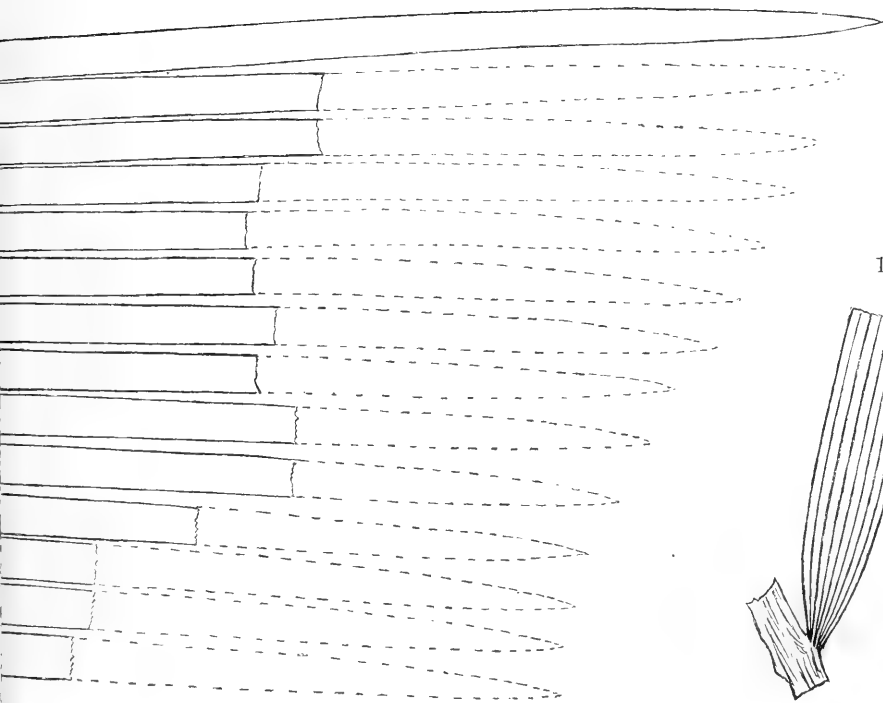
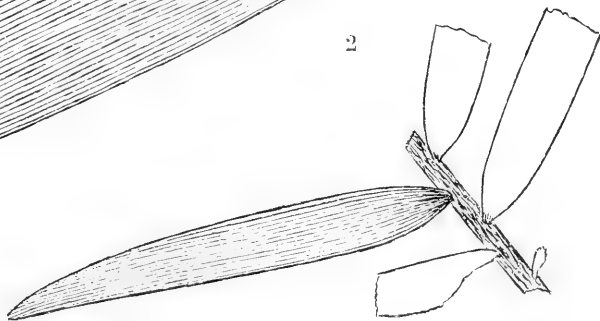
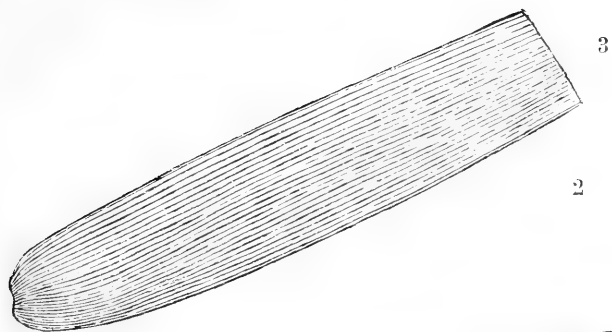
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1^b





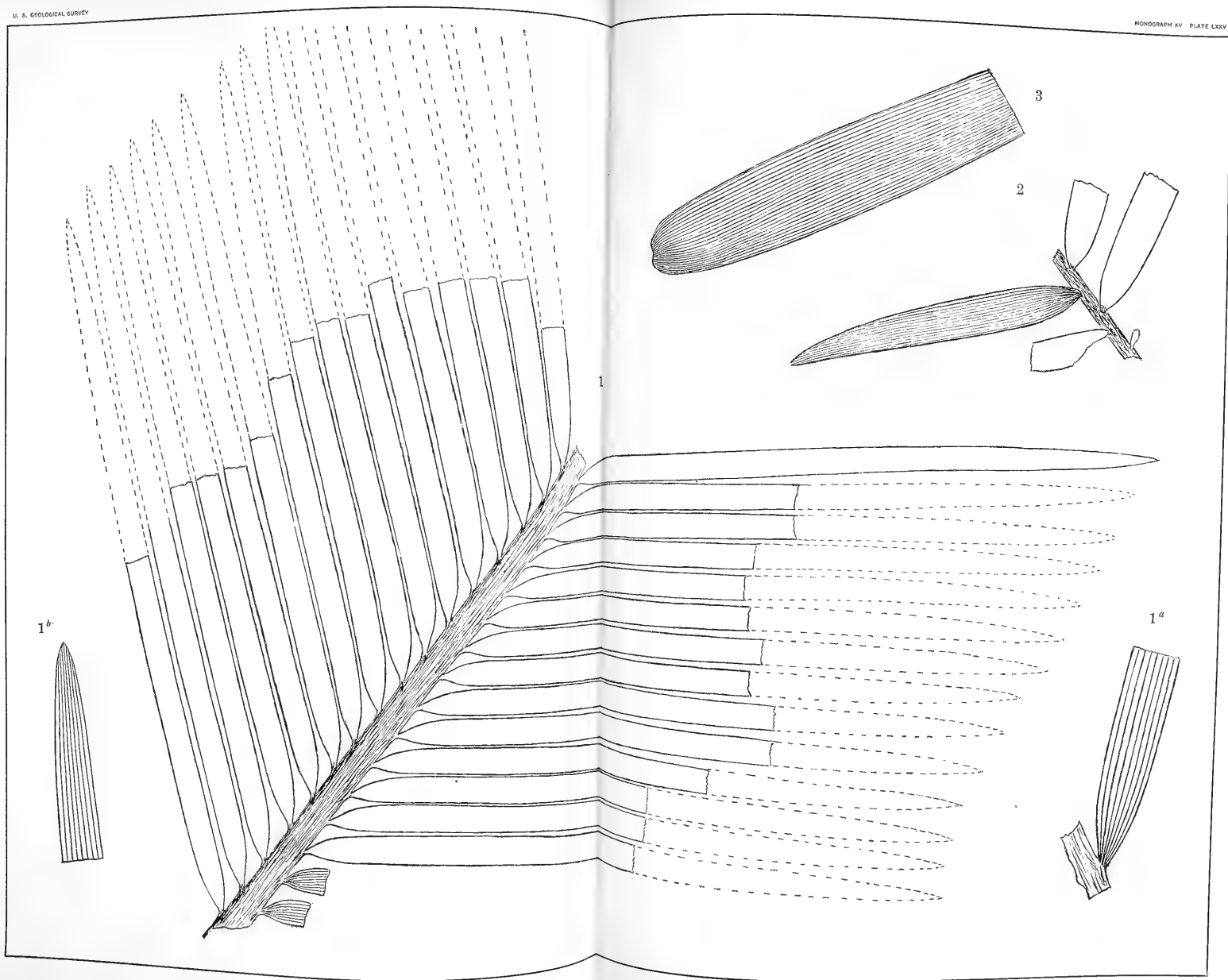




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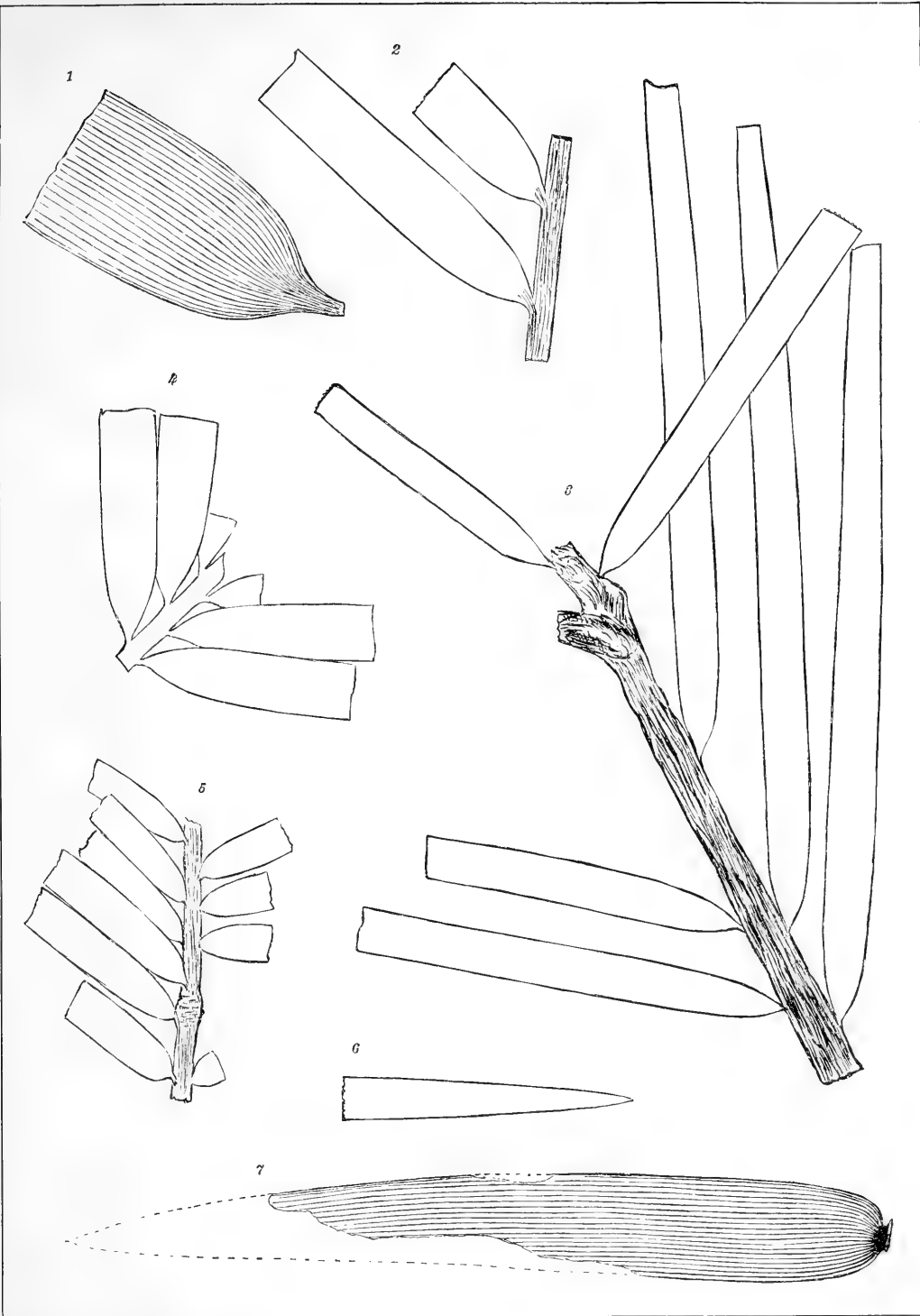




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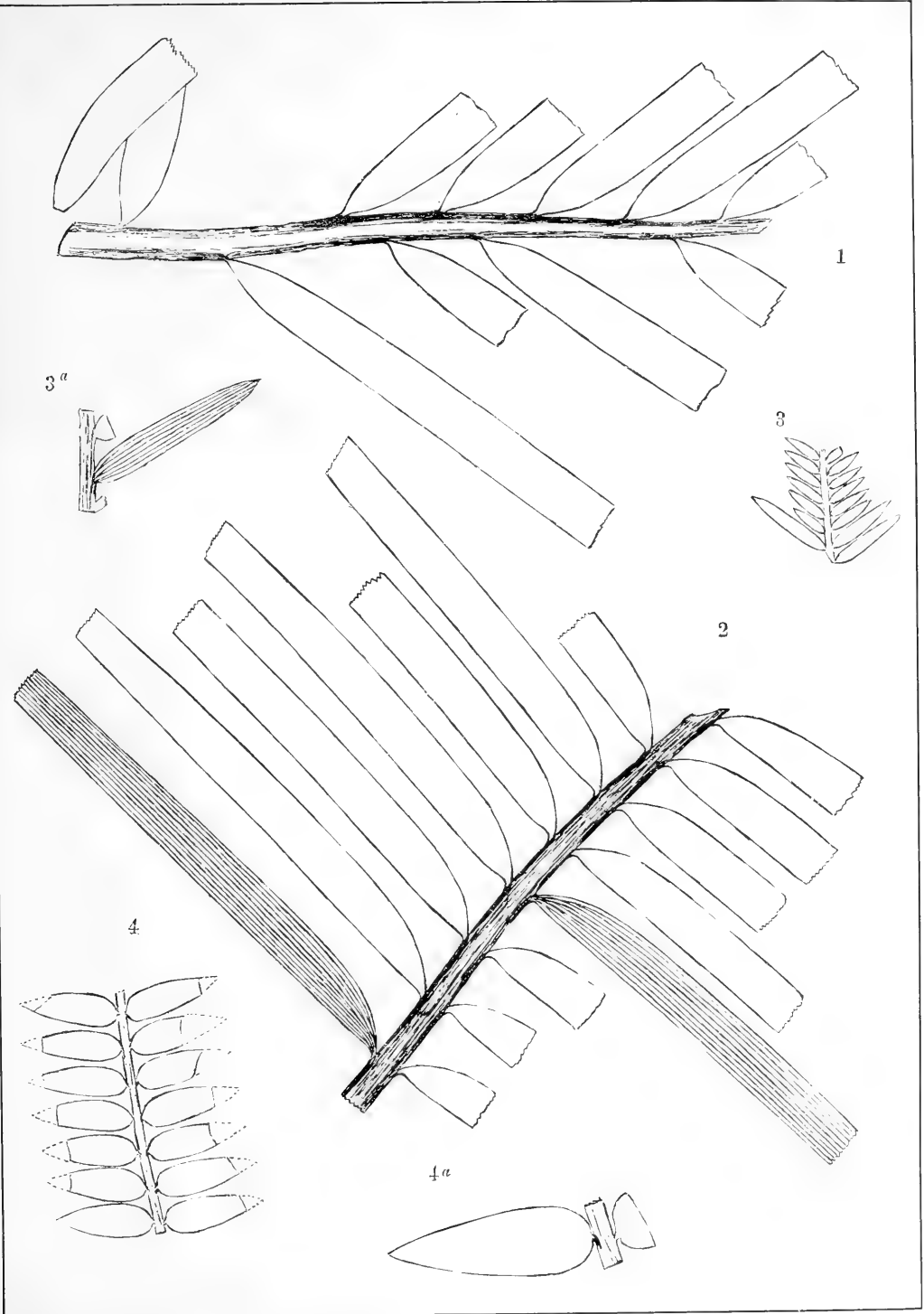




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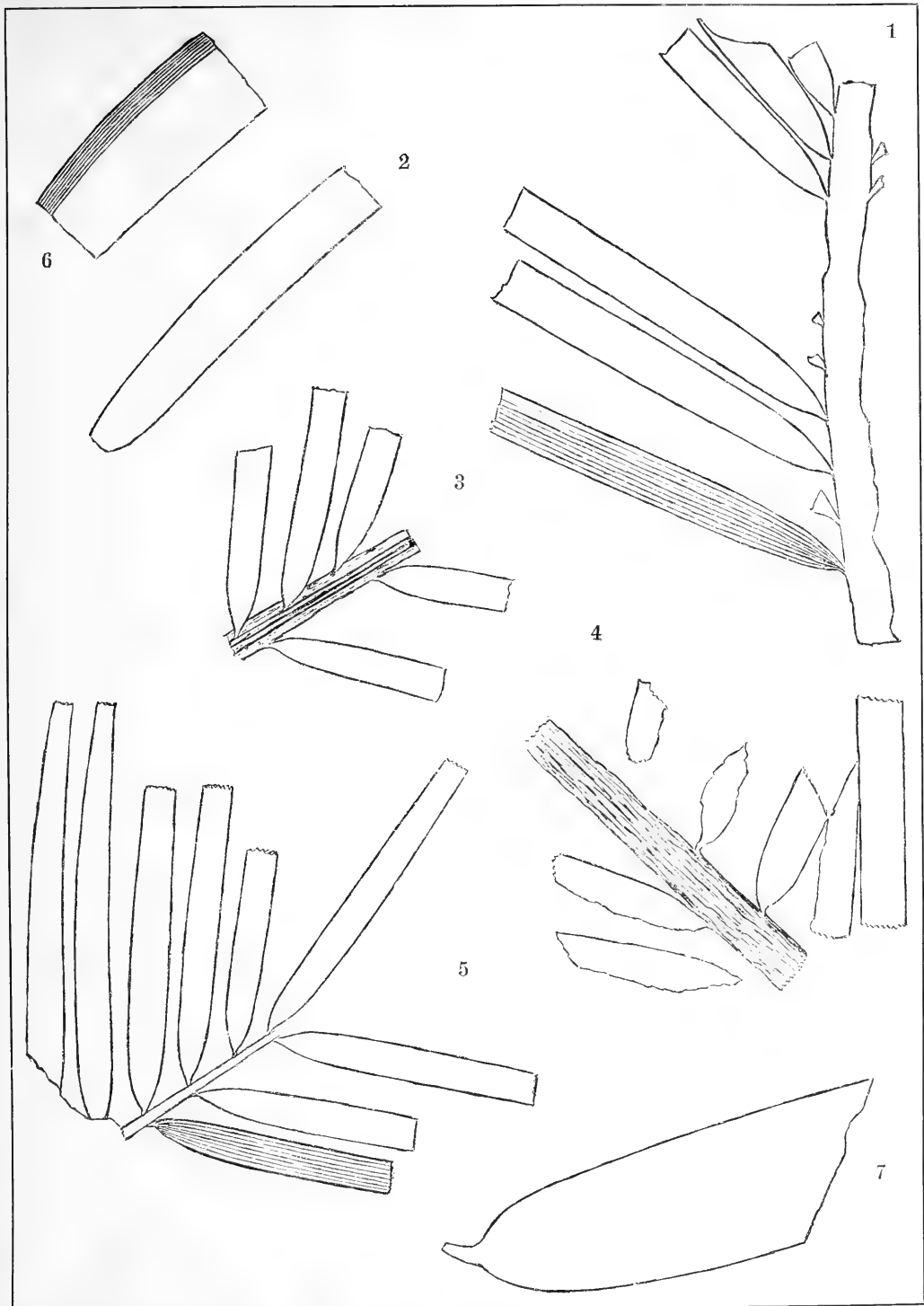


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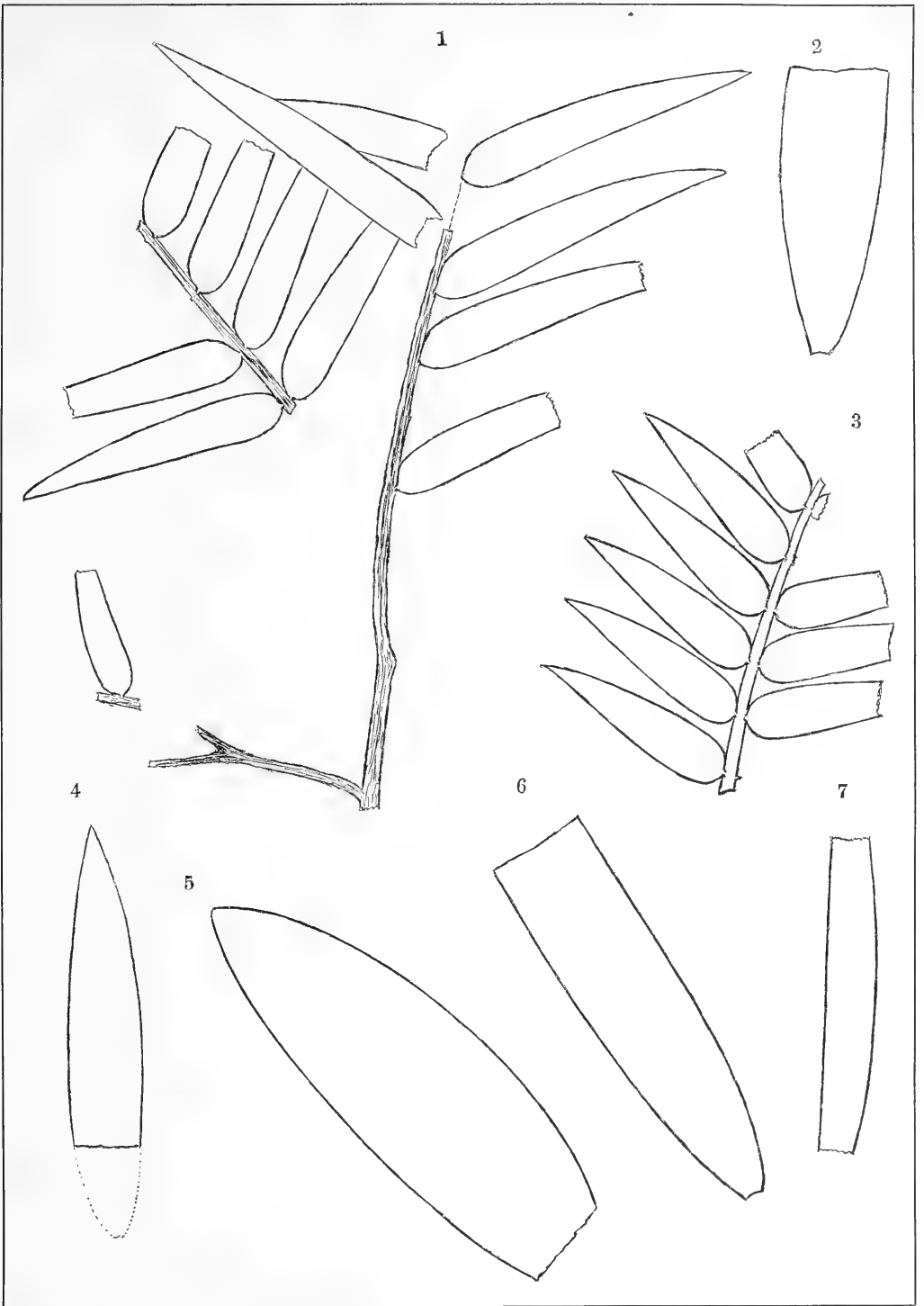
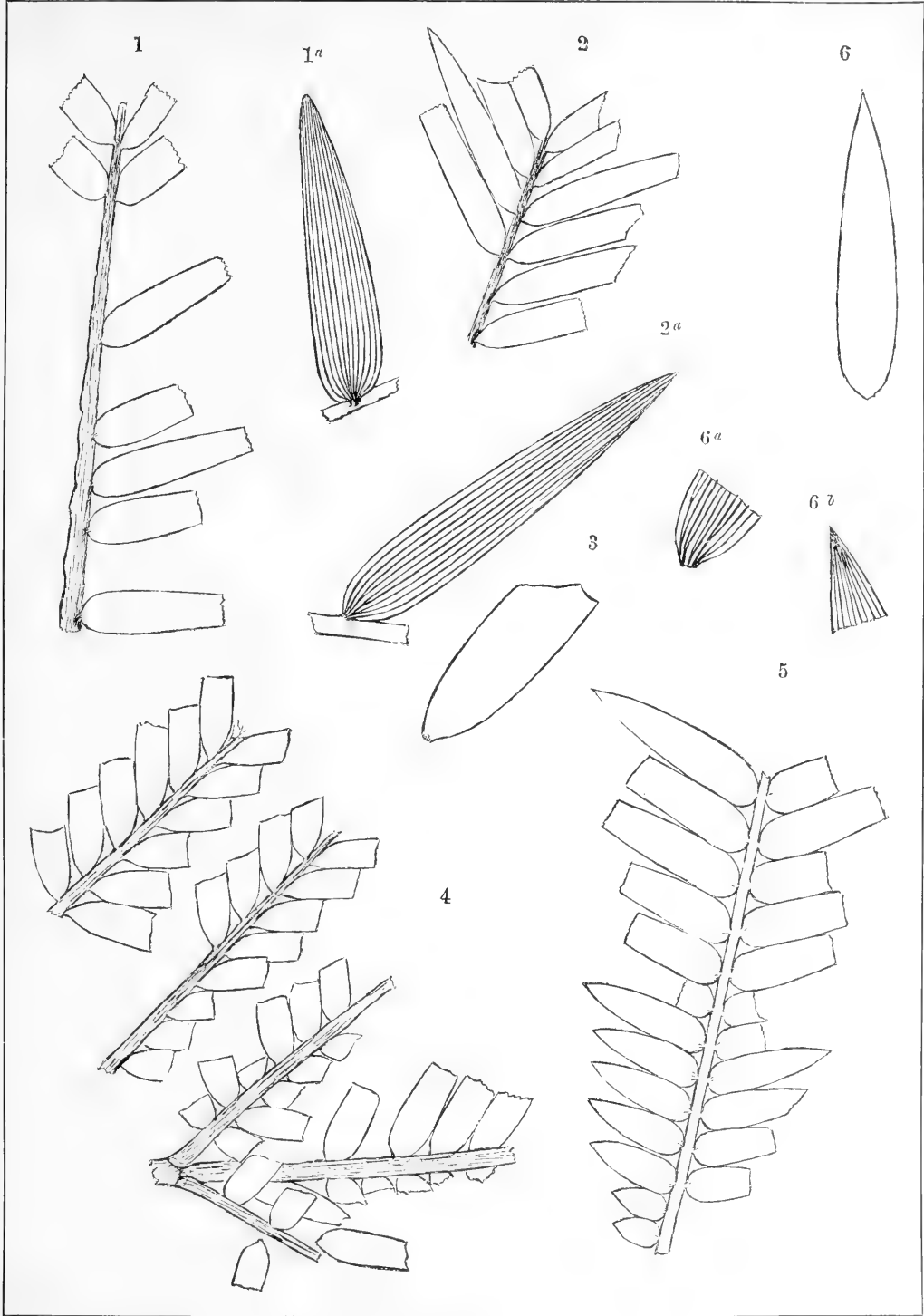




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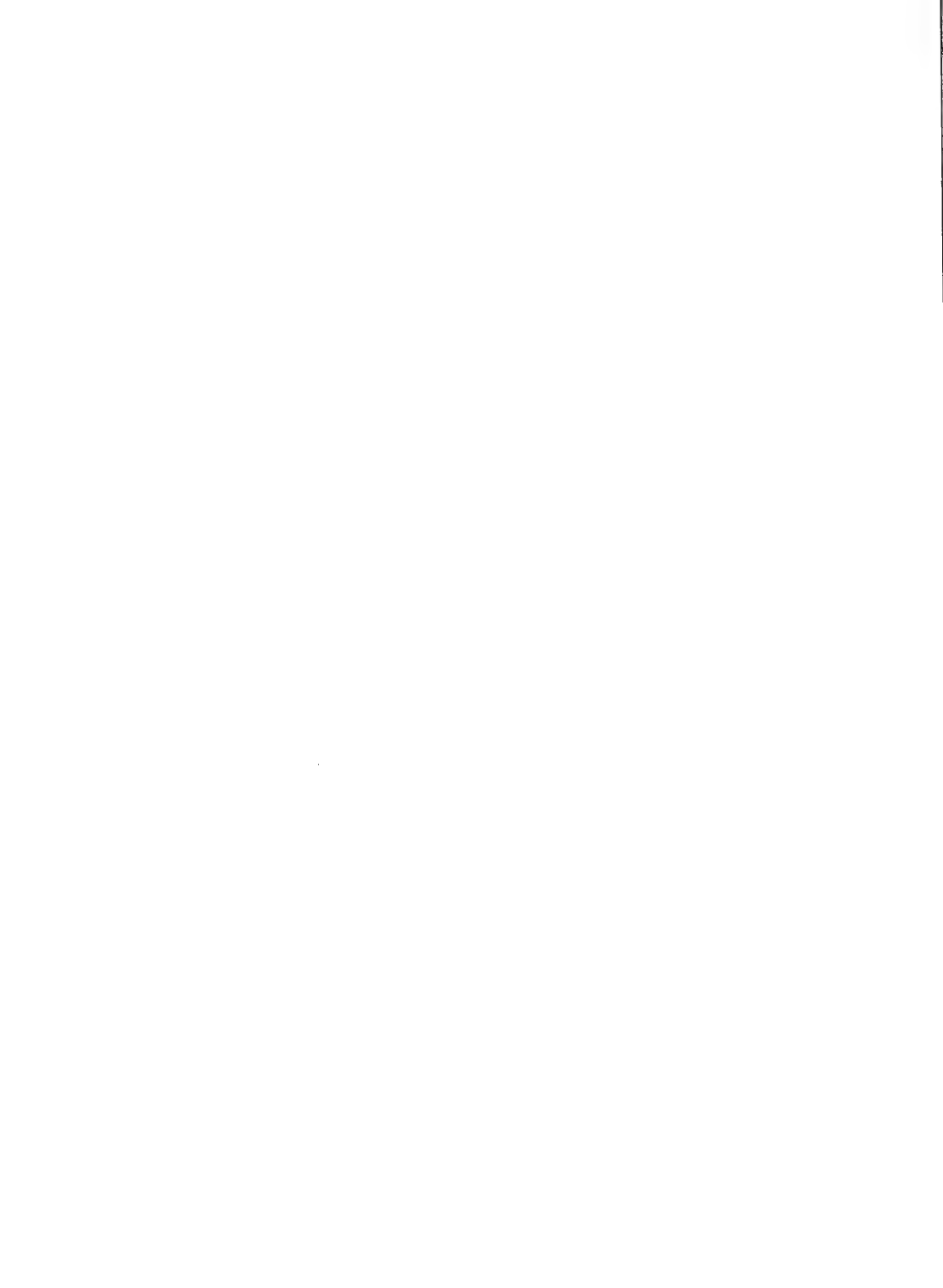


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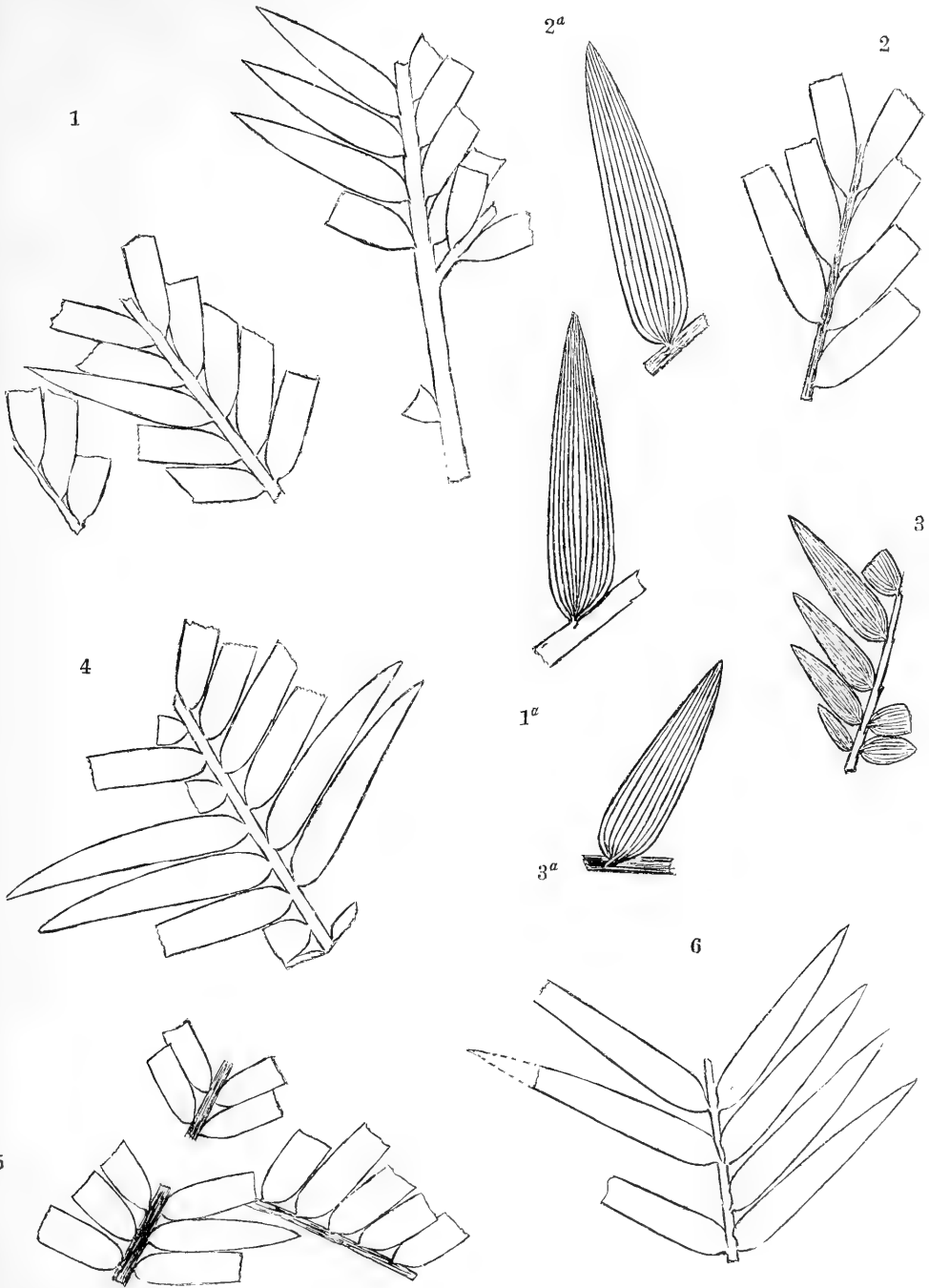




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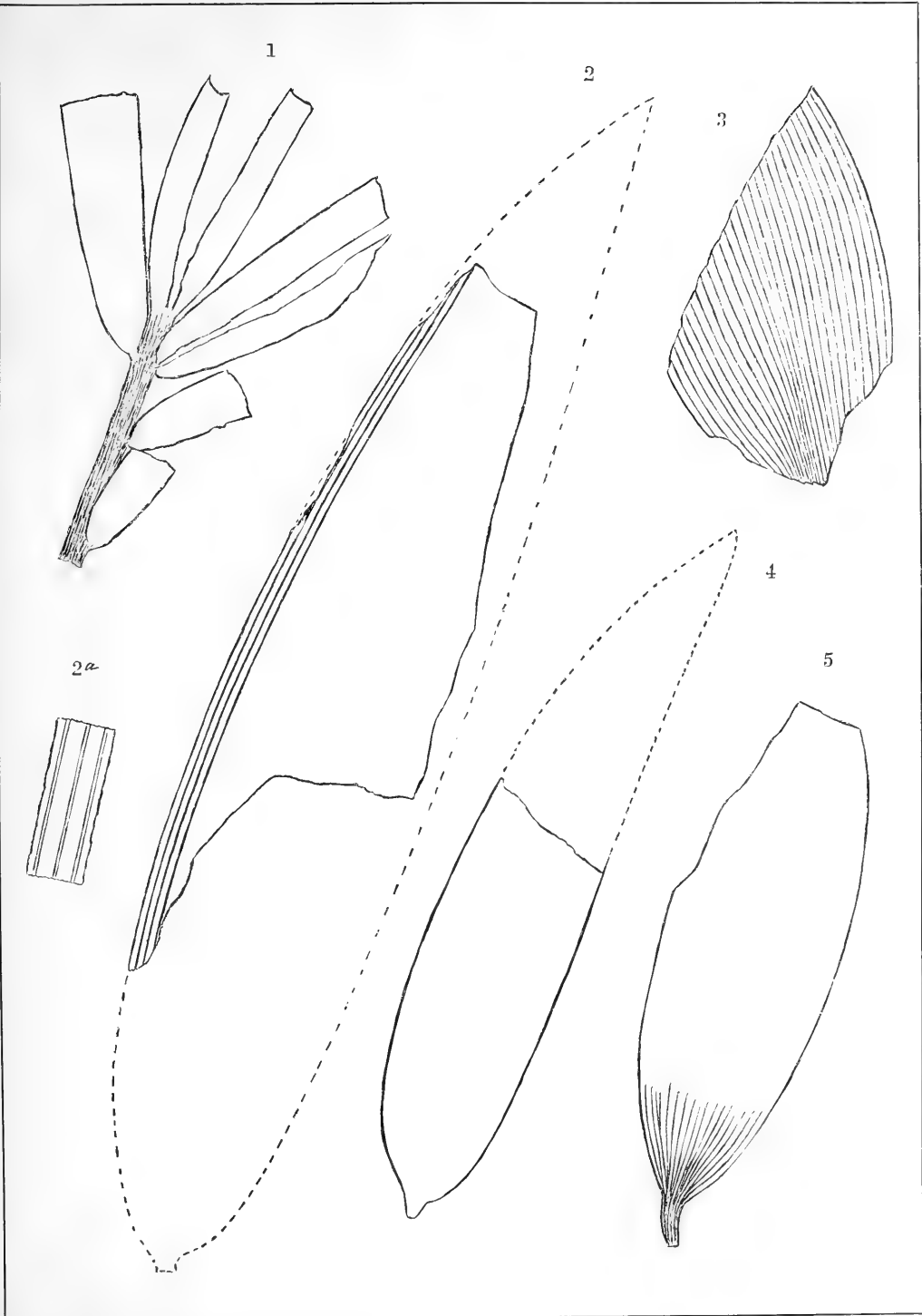


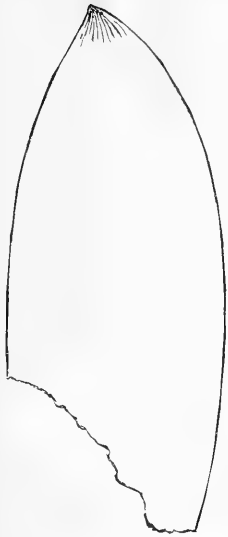


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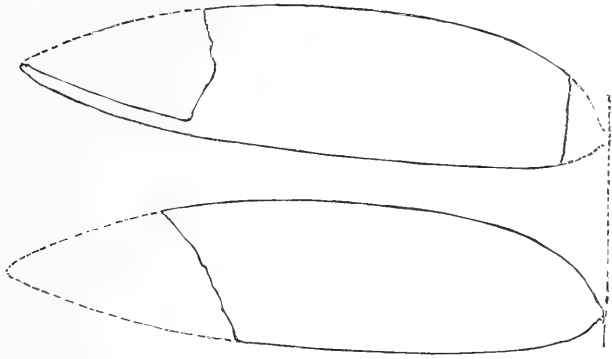
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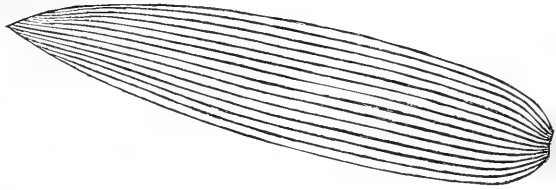
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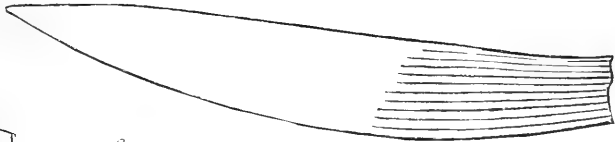
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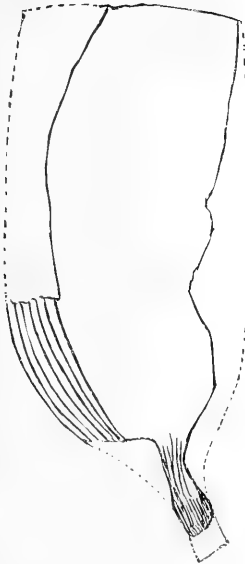
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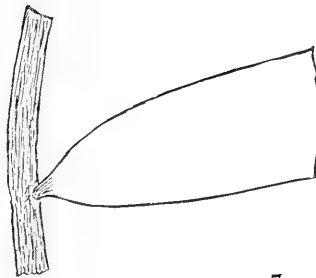
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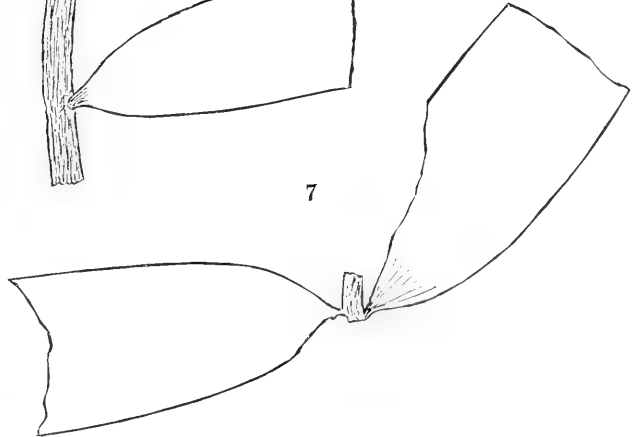


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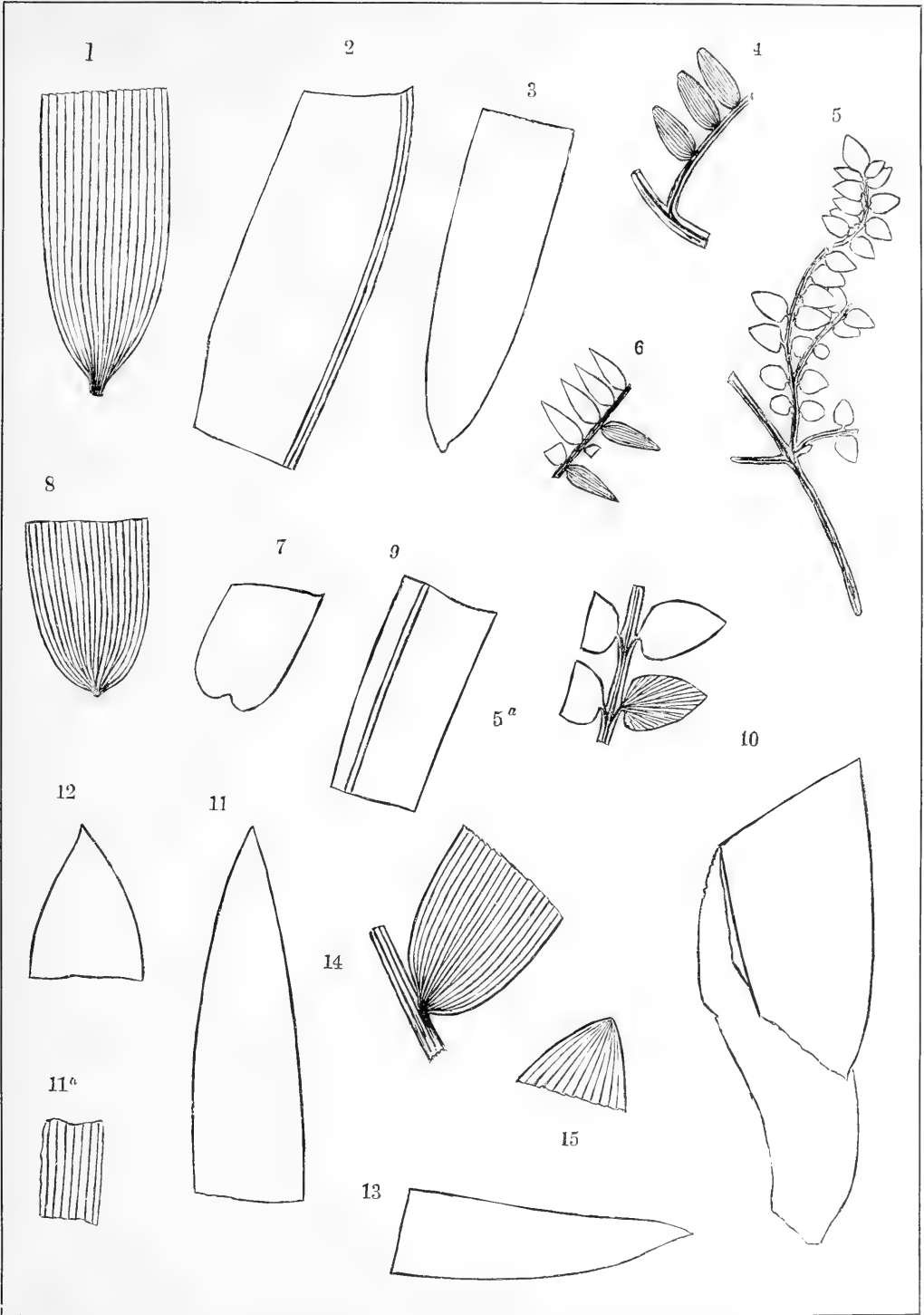


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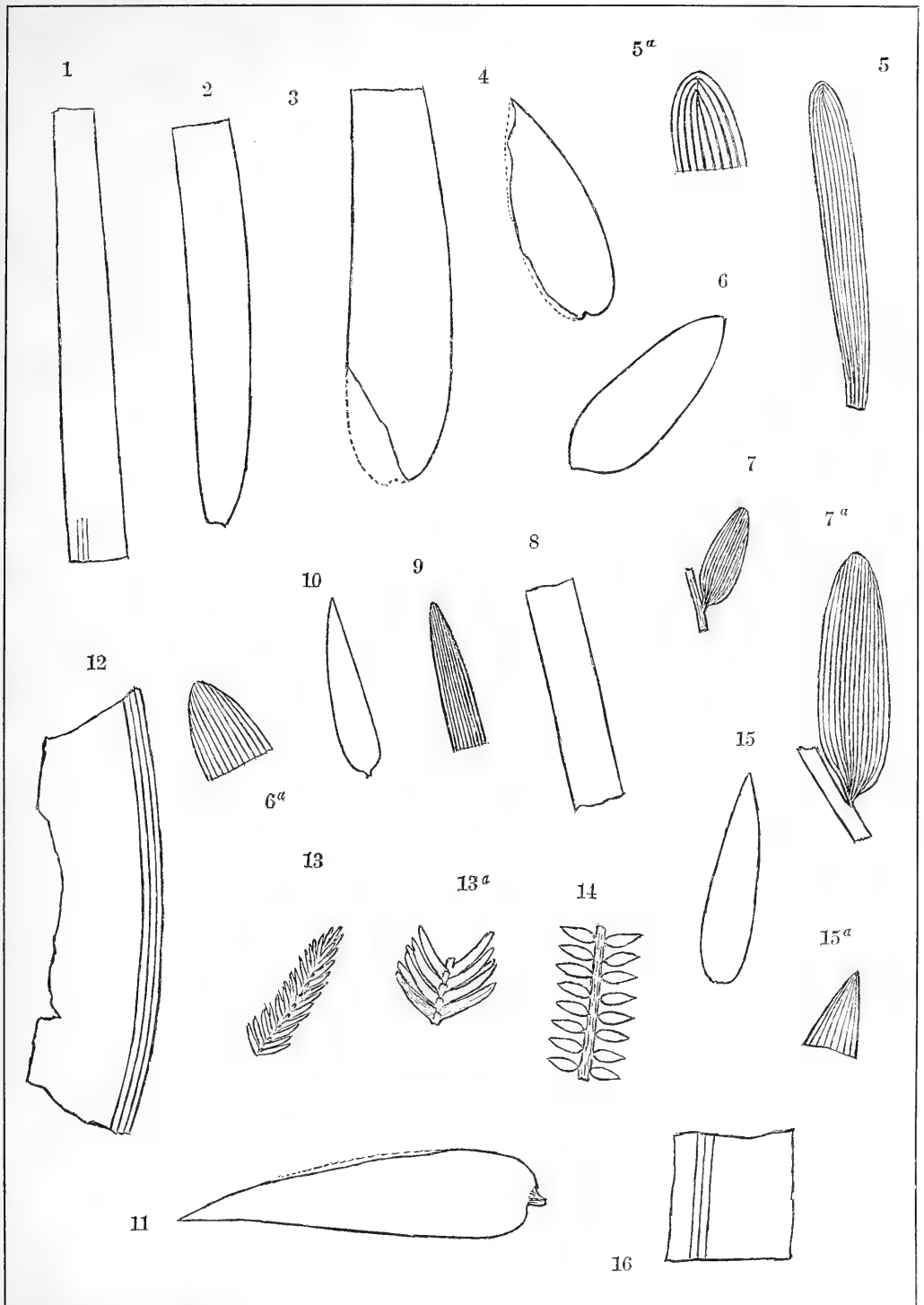


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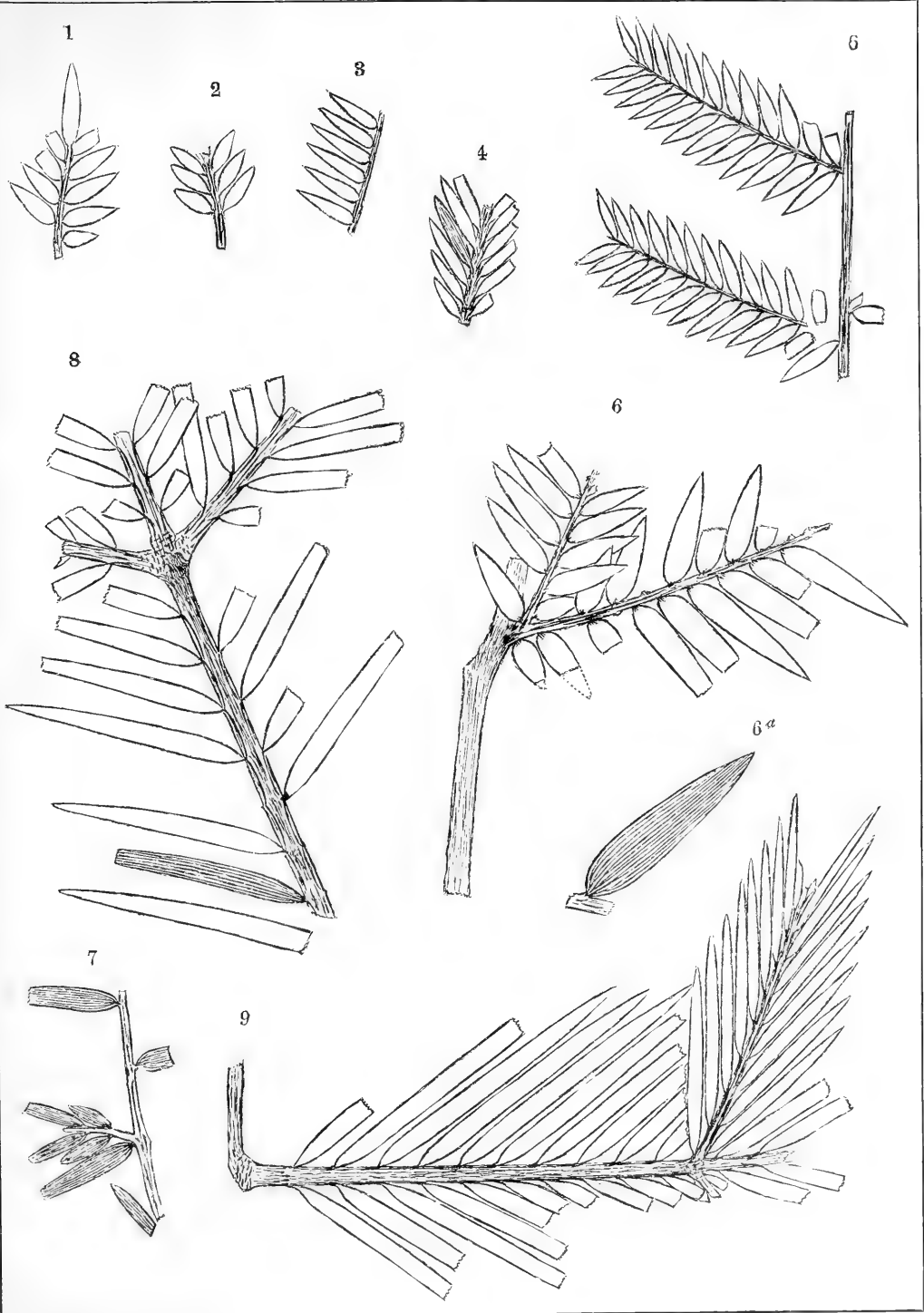


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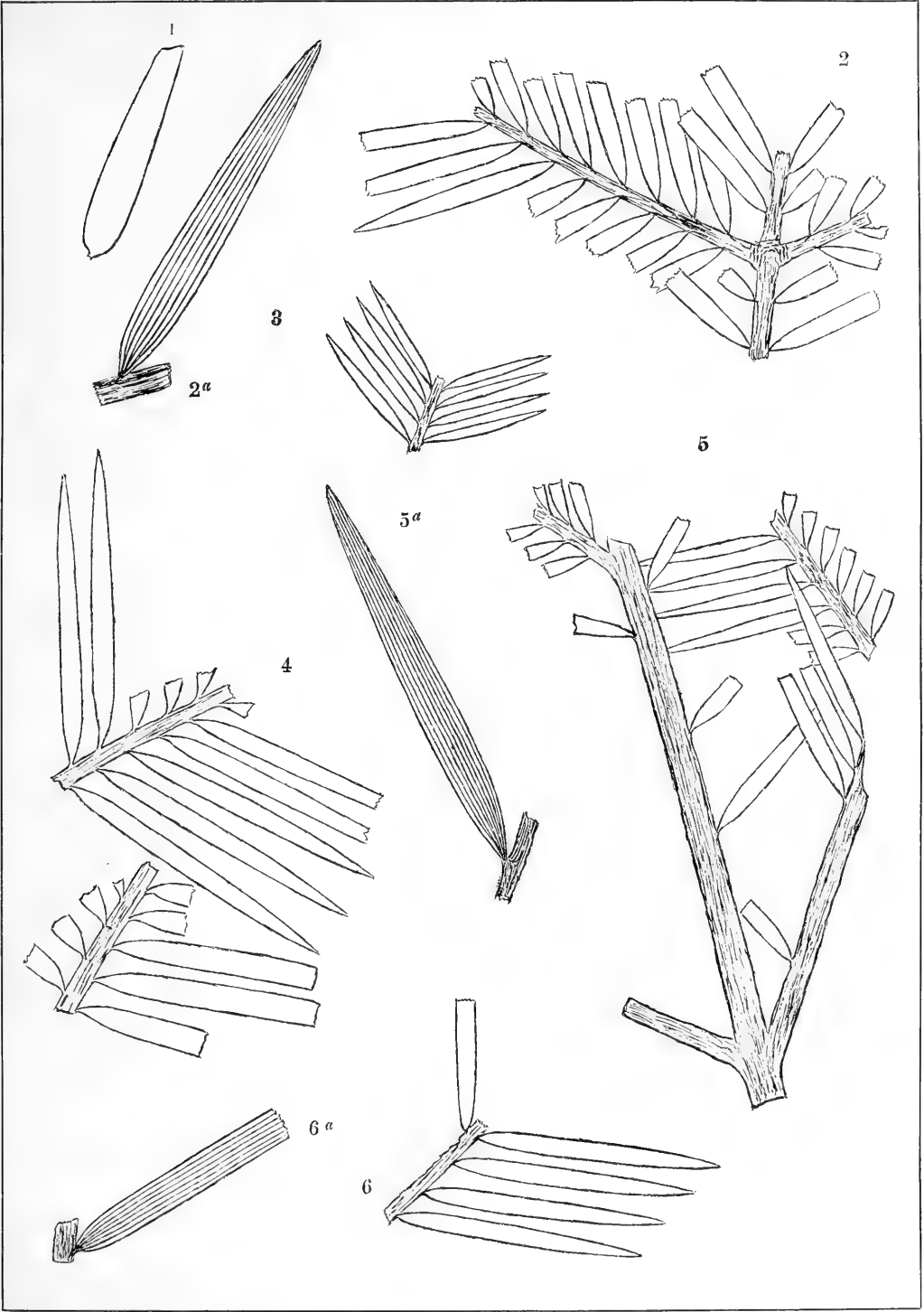




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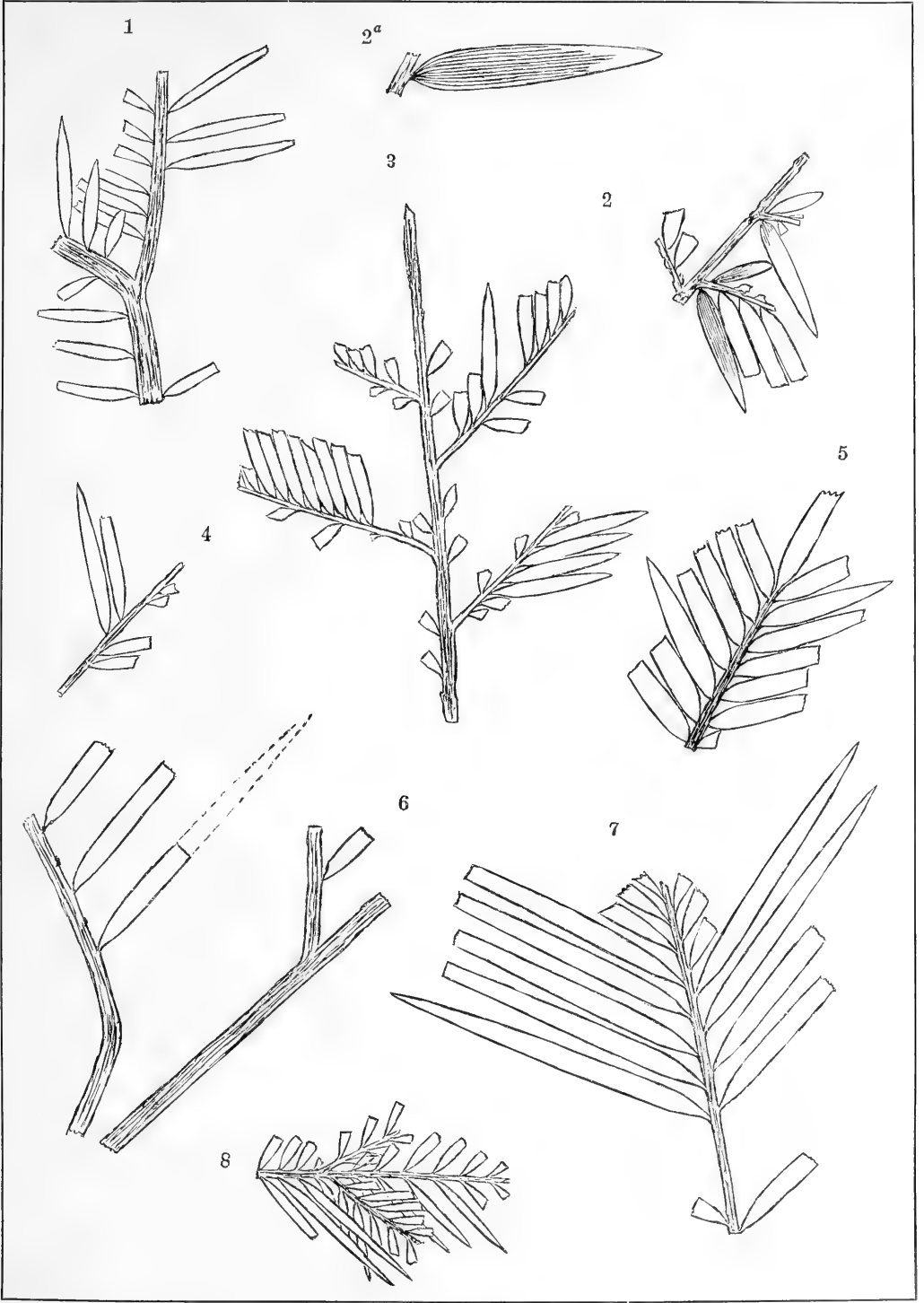




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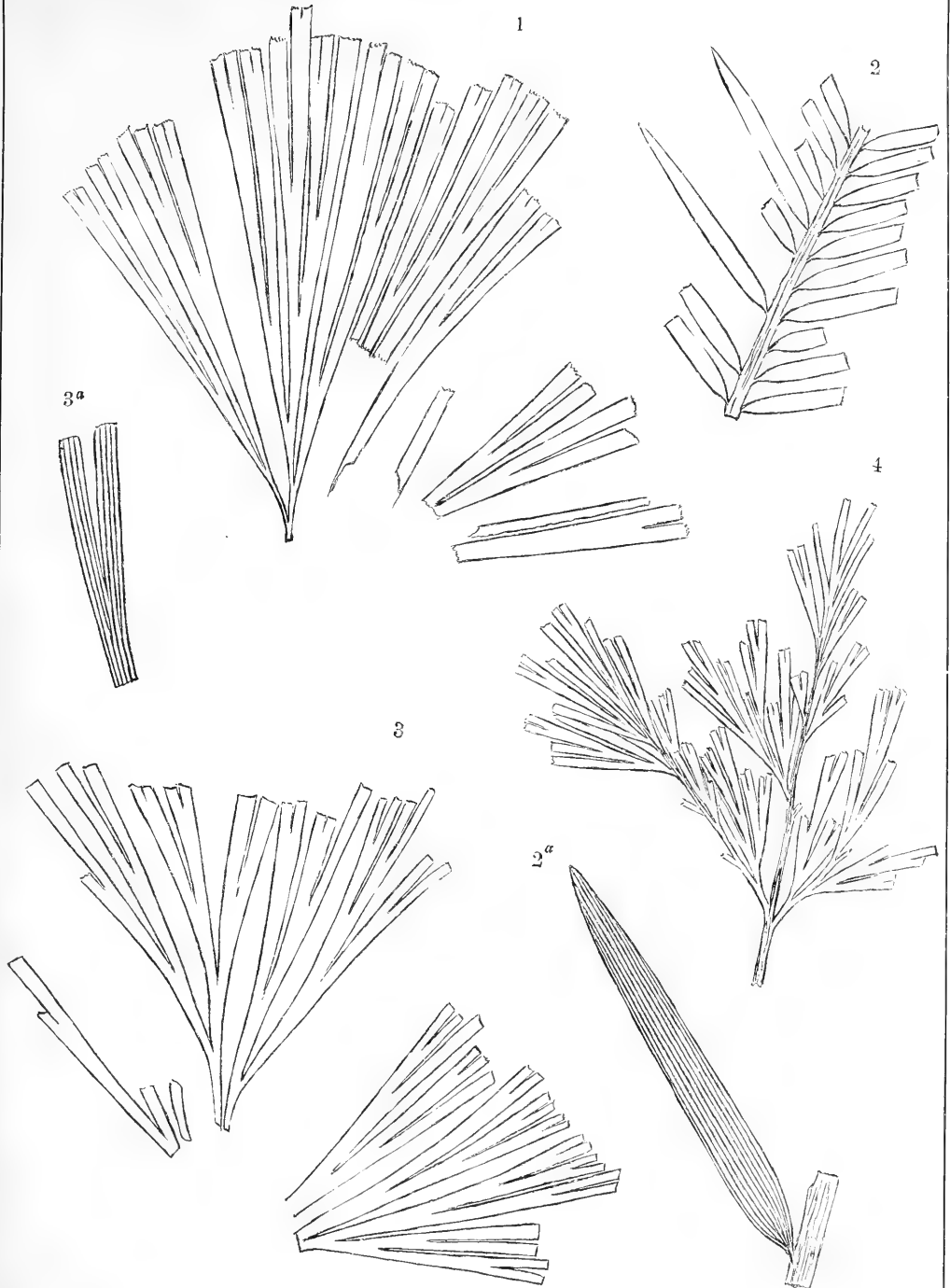


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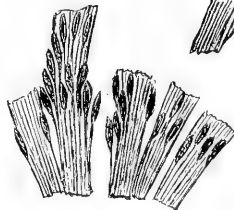
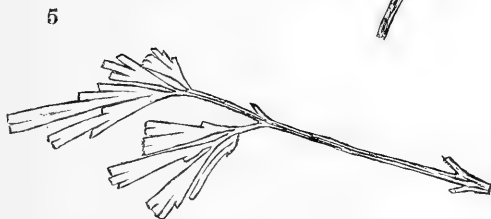
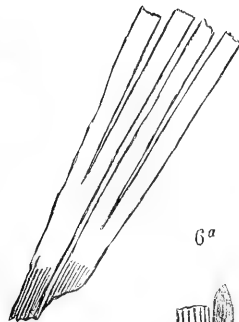
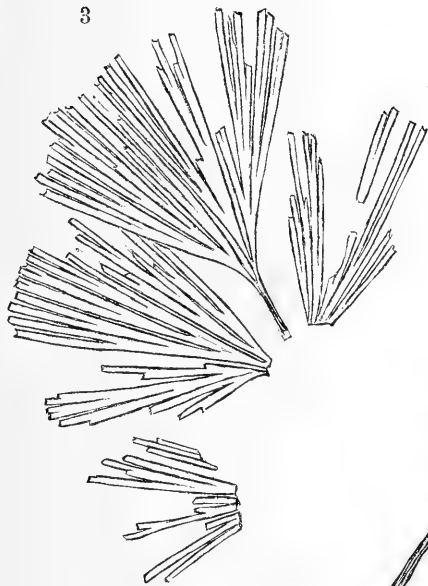
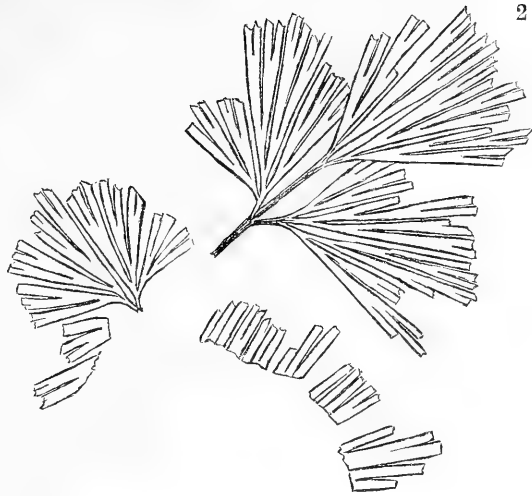
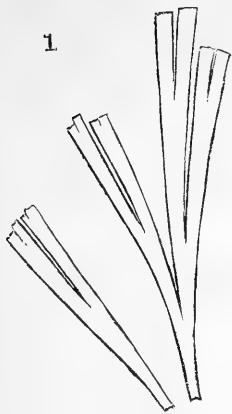


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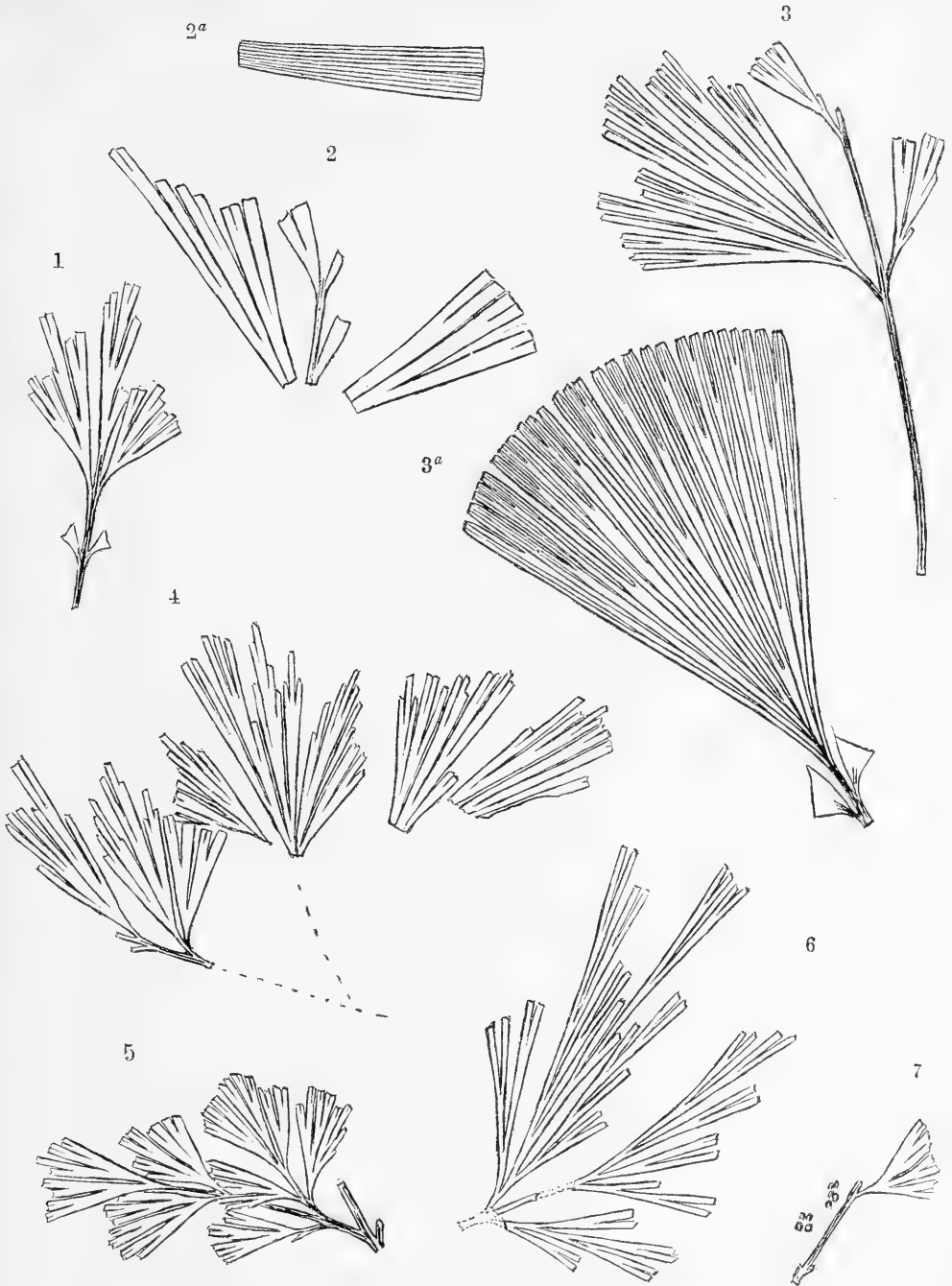


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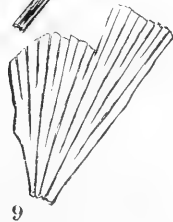
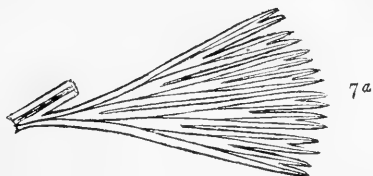
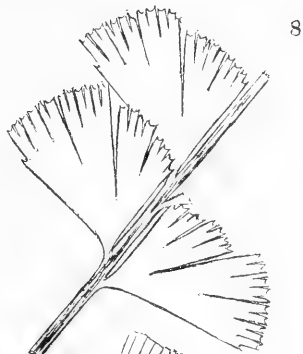
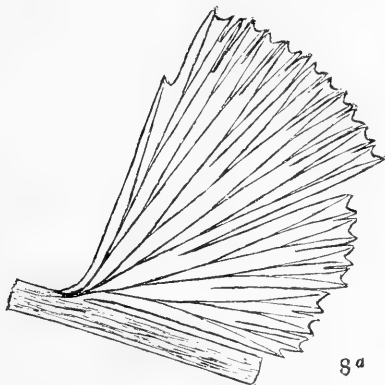
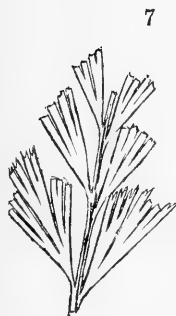
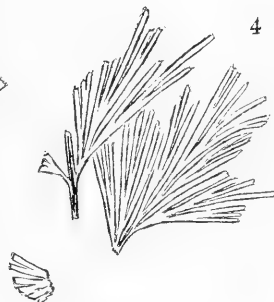
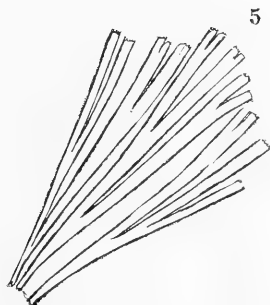
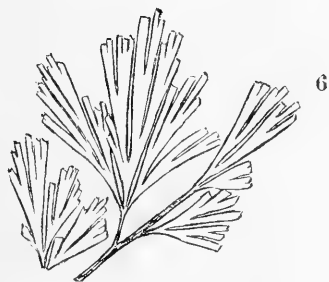
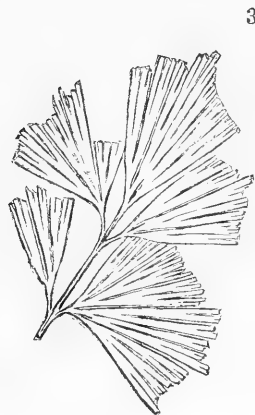
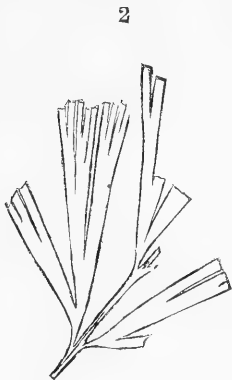
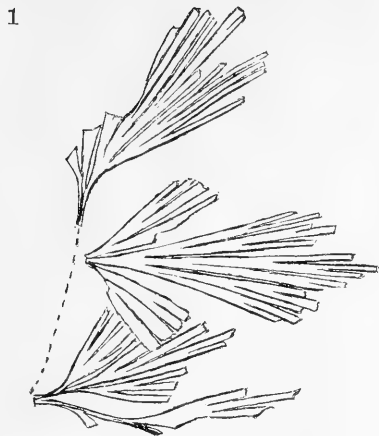


PLATE XCIII.

PLATE XCIII.

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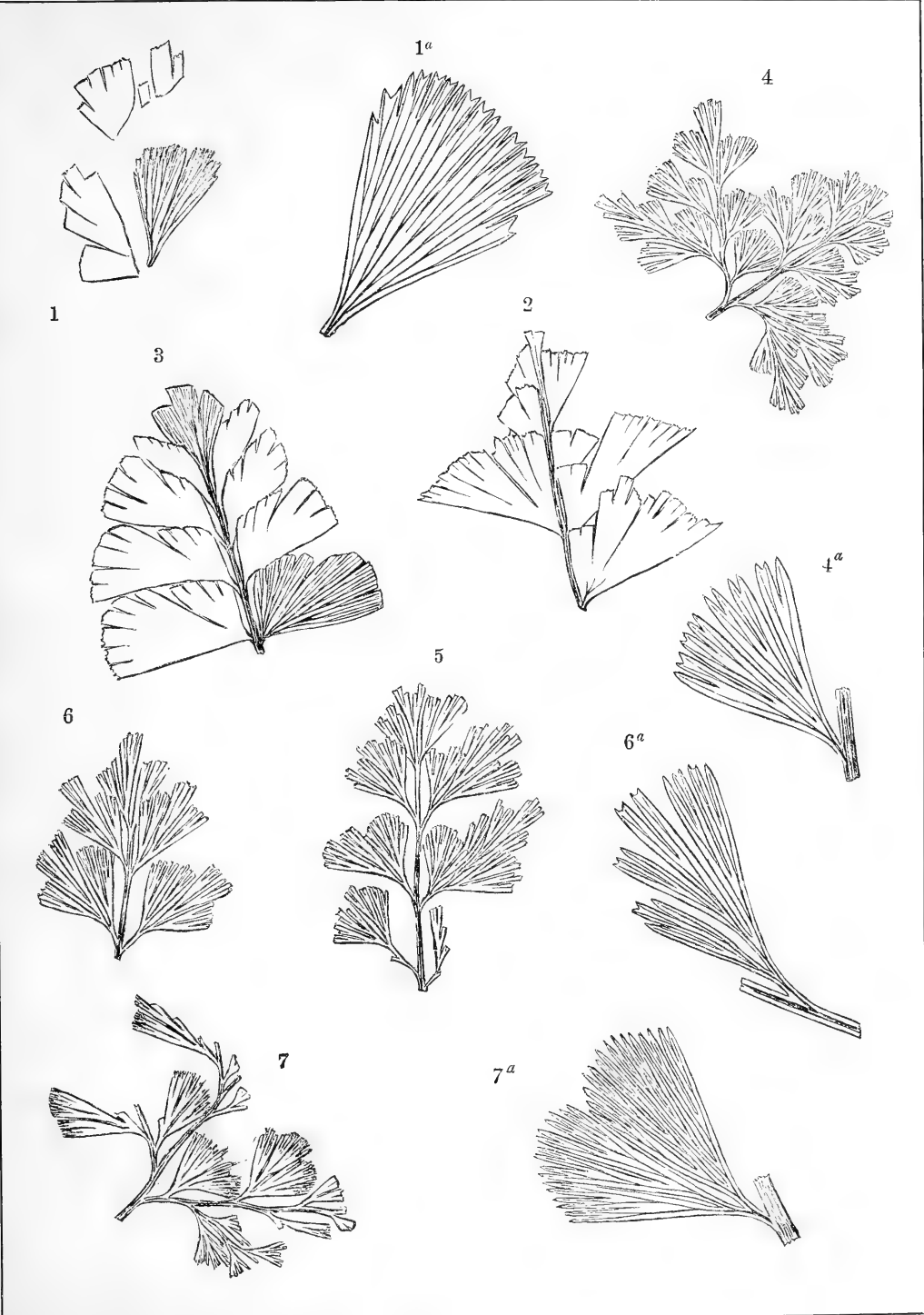


PLATE XCIV.

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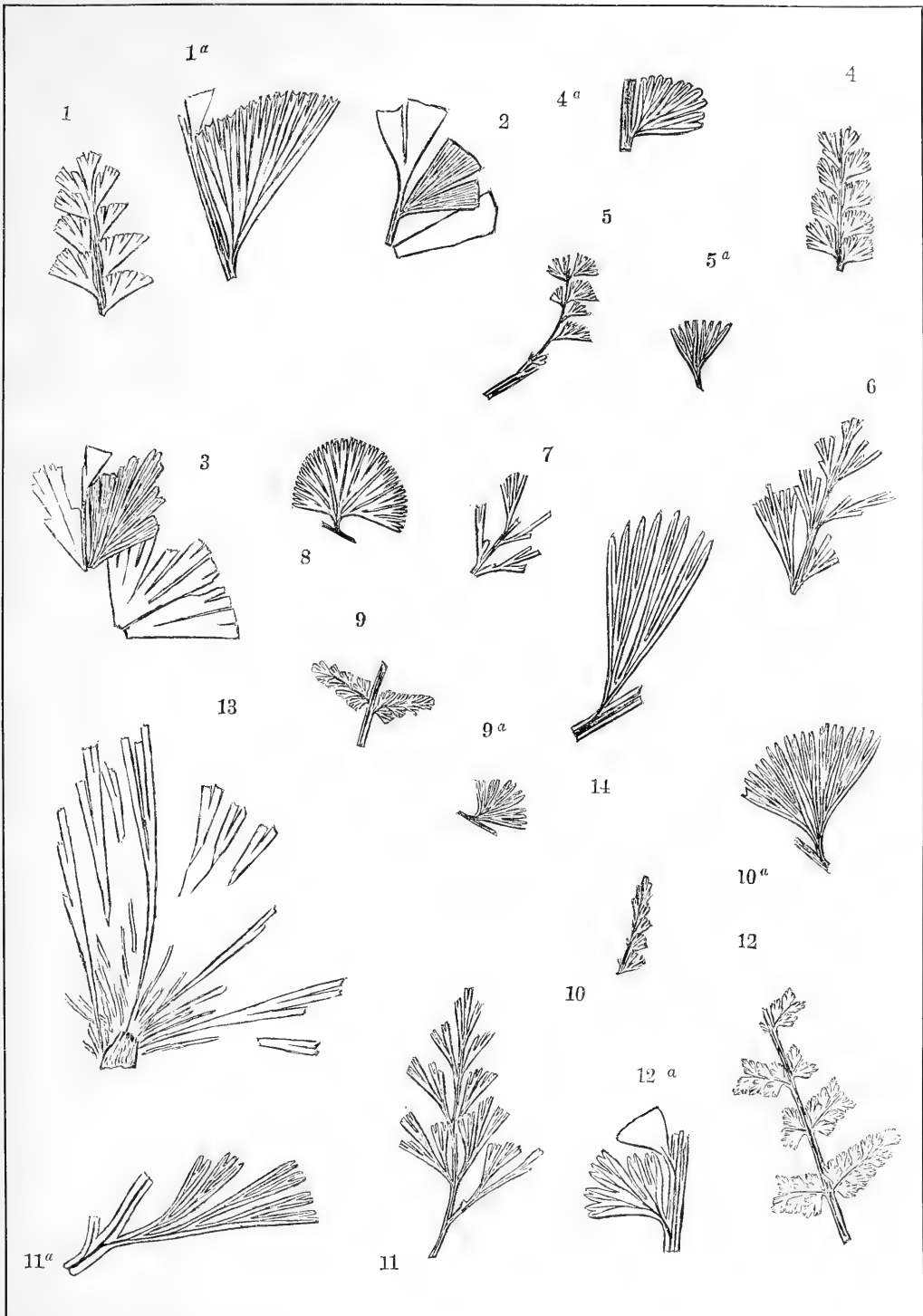


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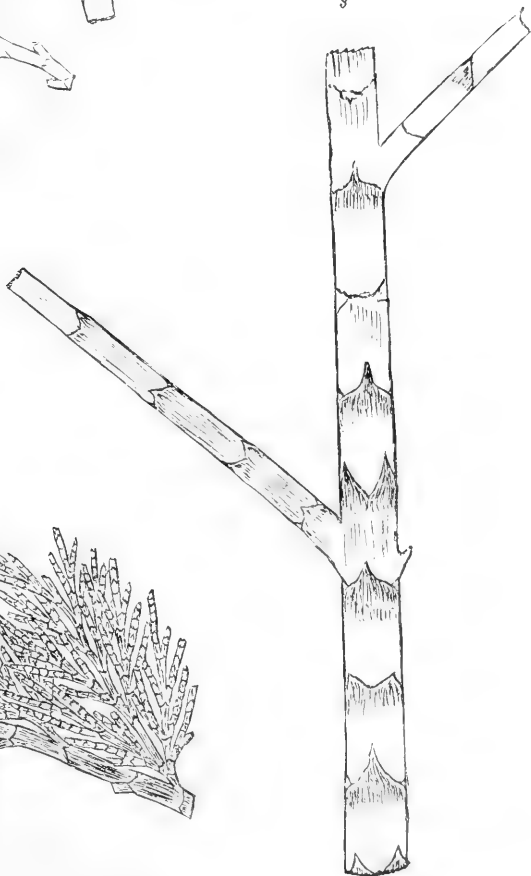
2



4



8



6

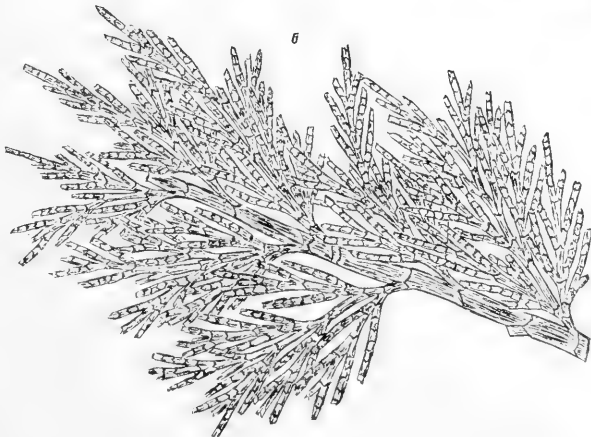


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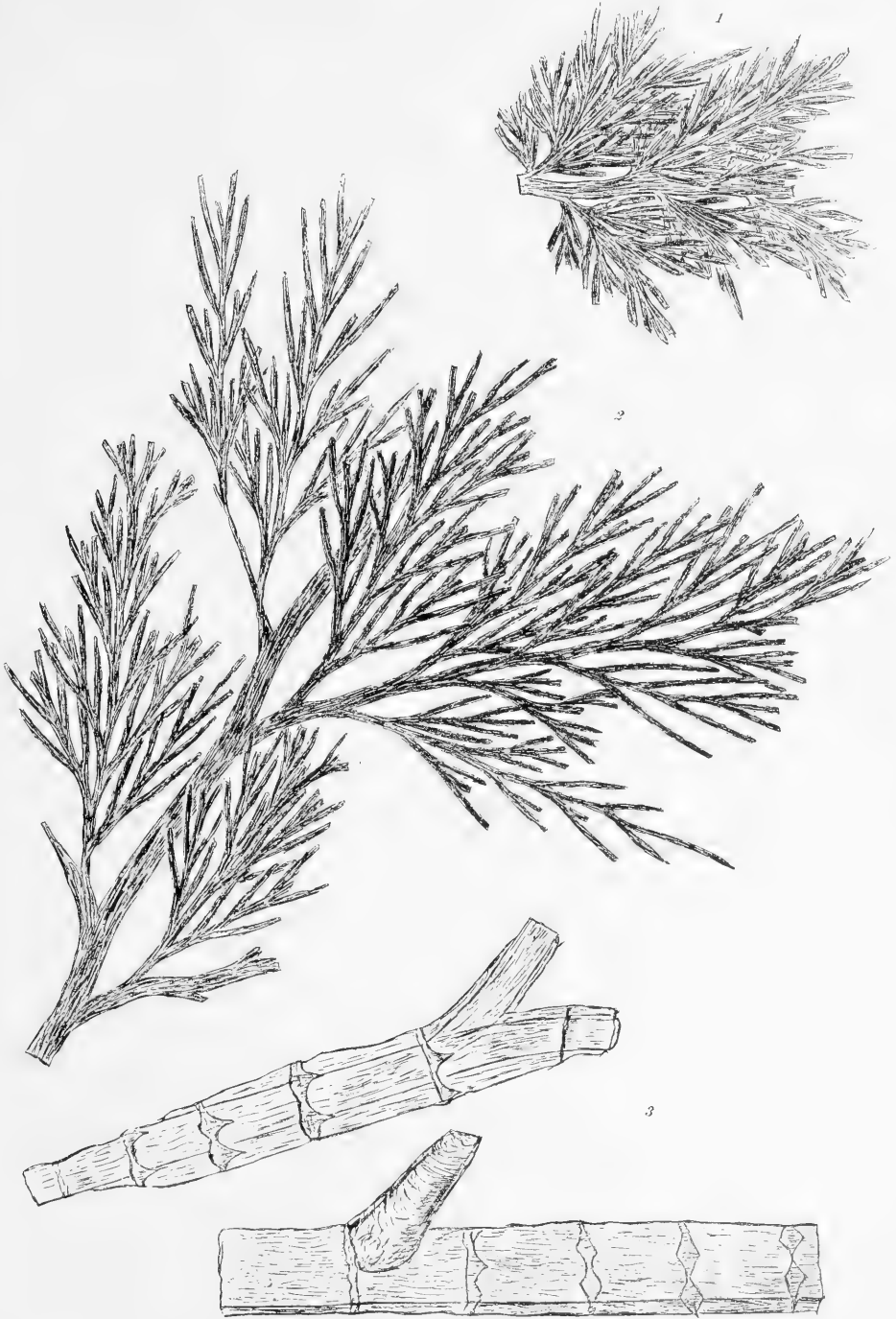


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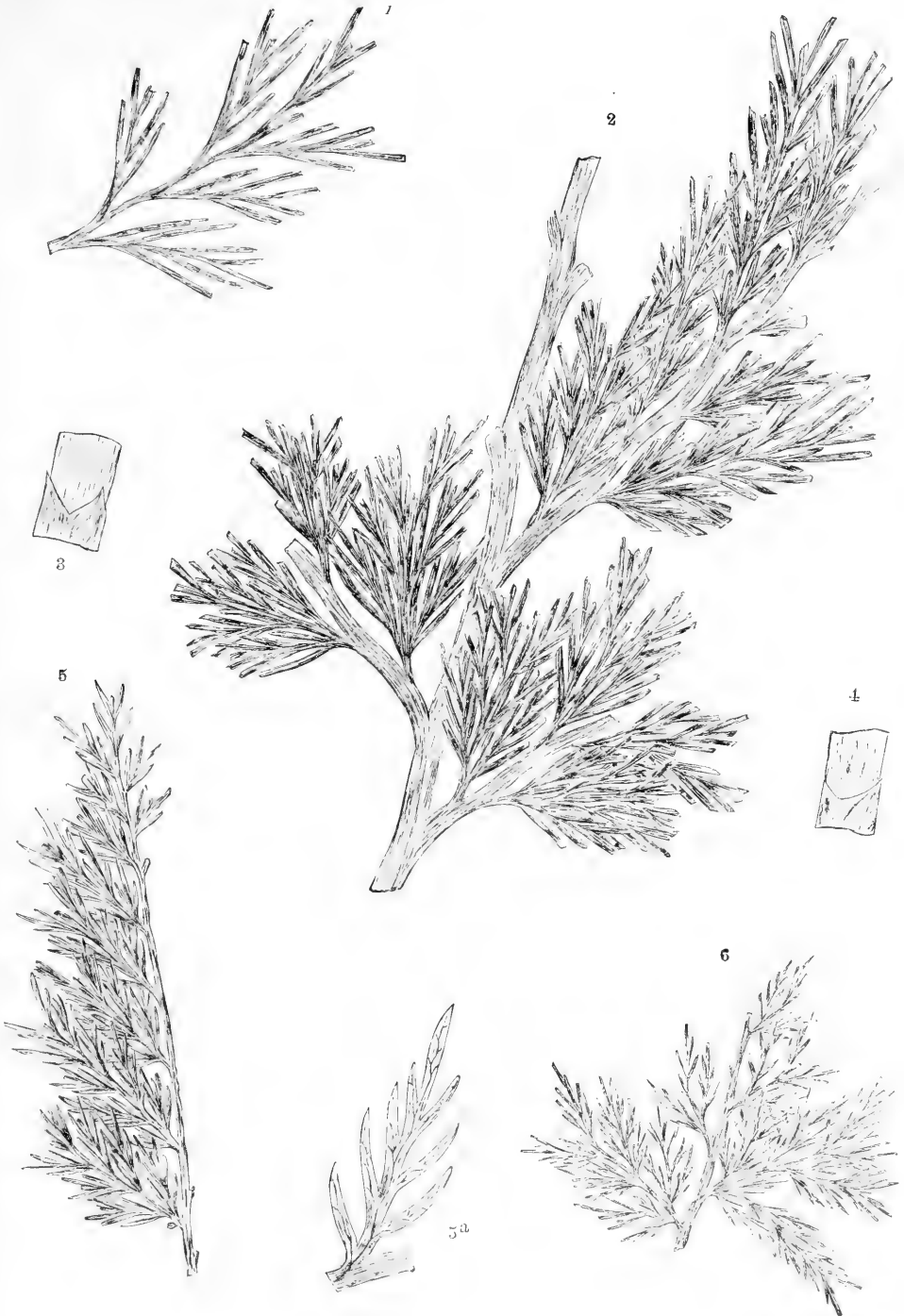


PLATE XCIX.

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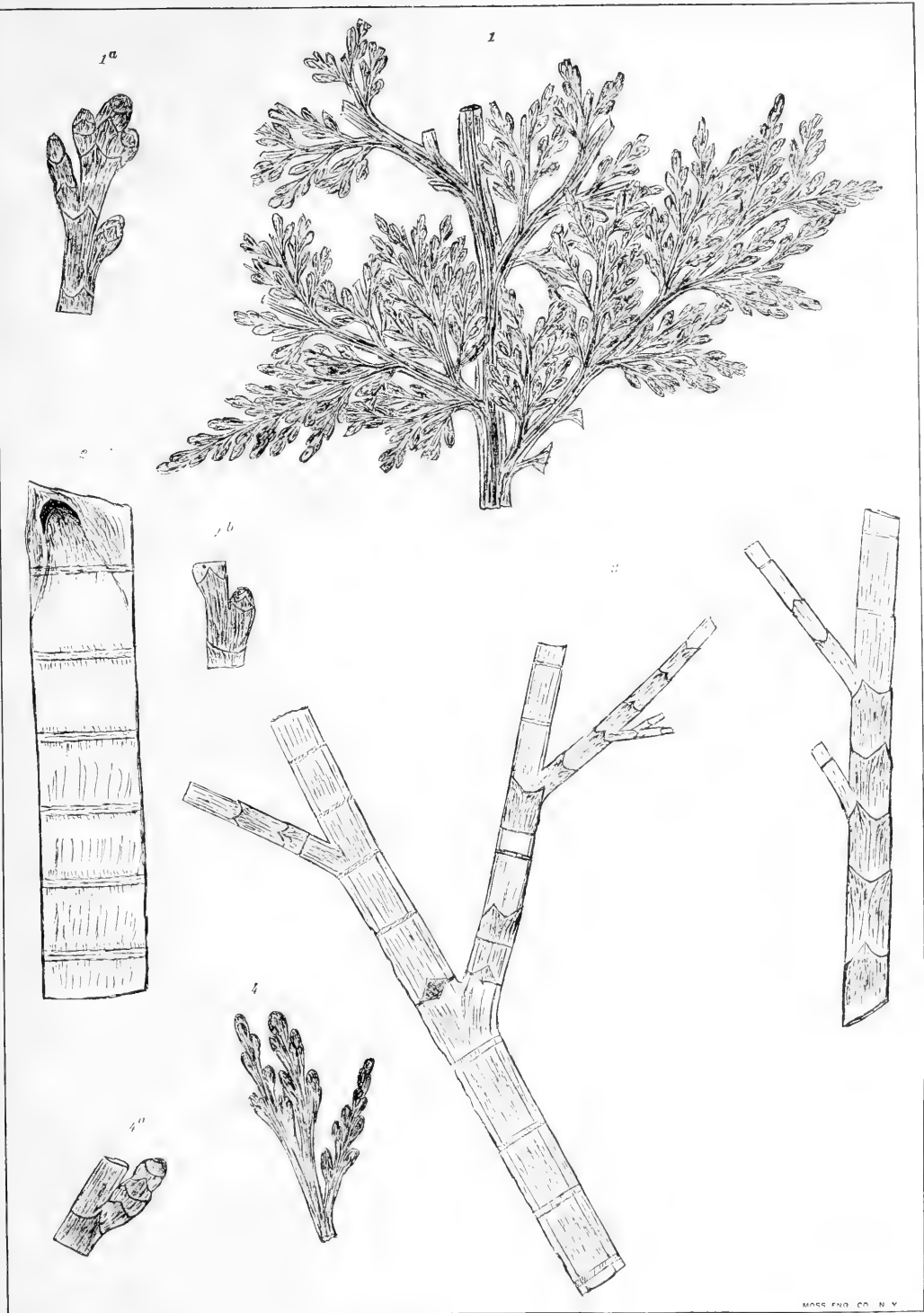


PLATE C.

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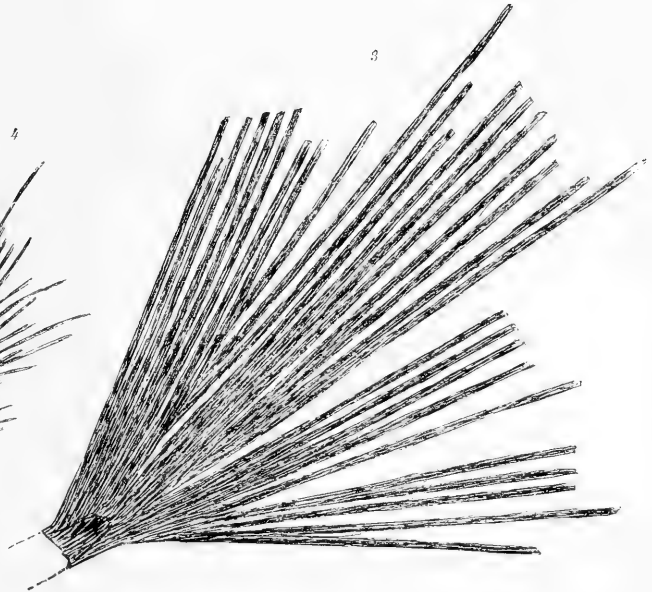
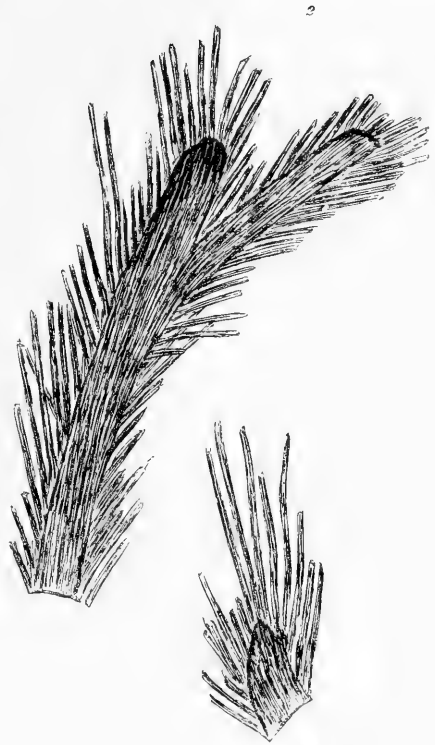


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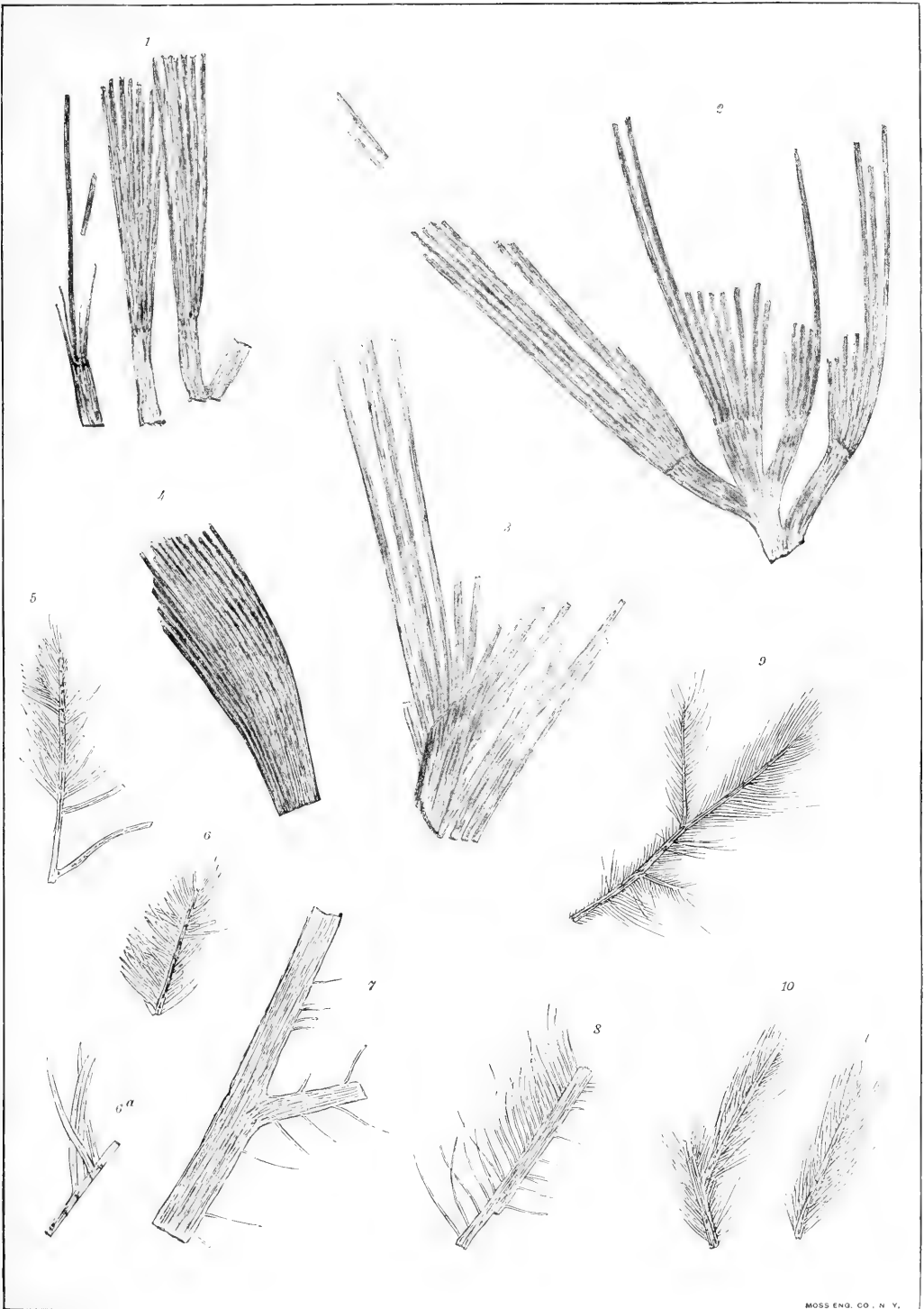


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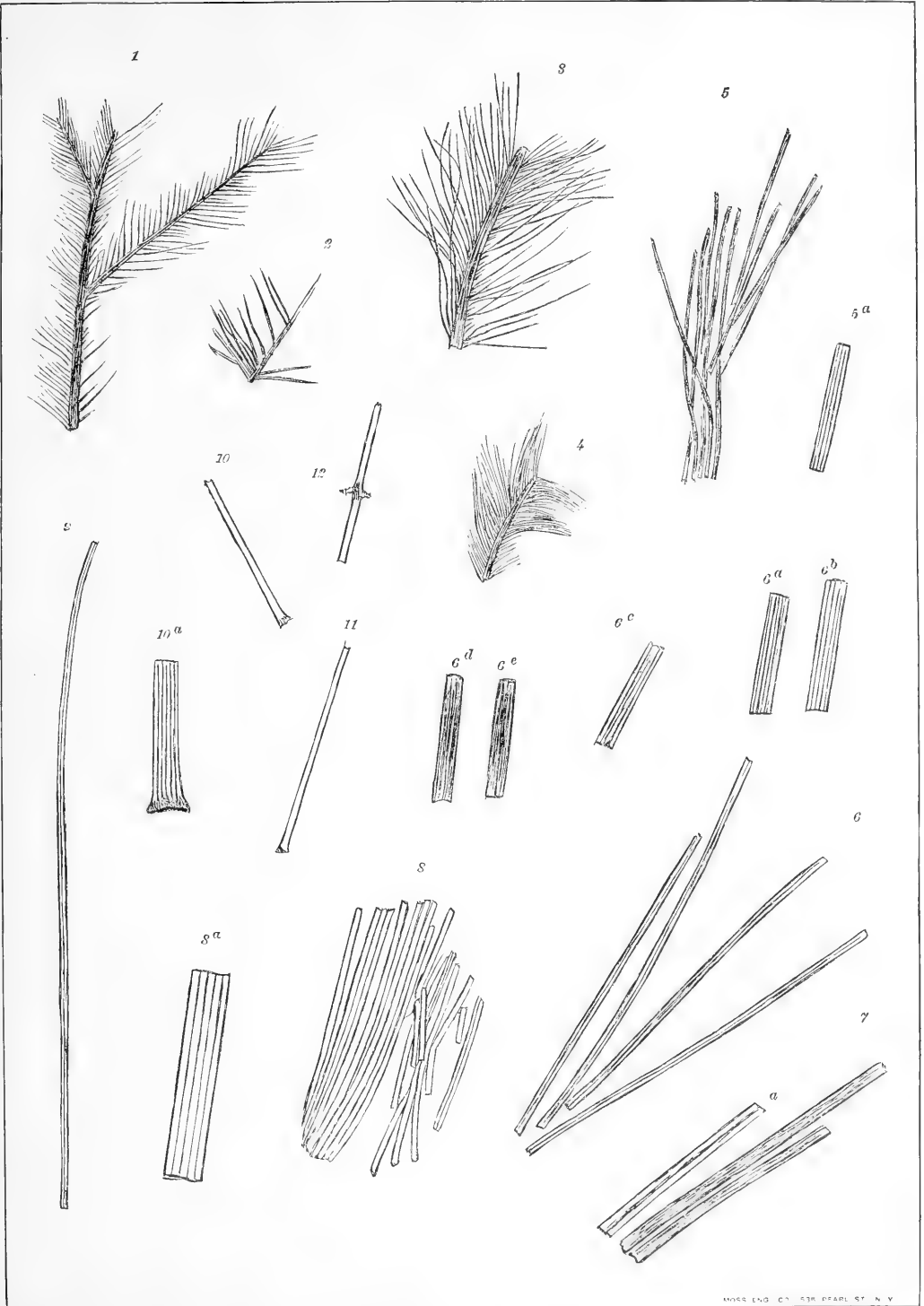


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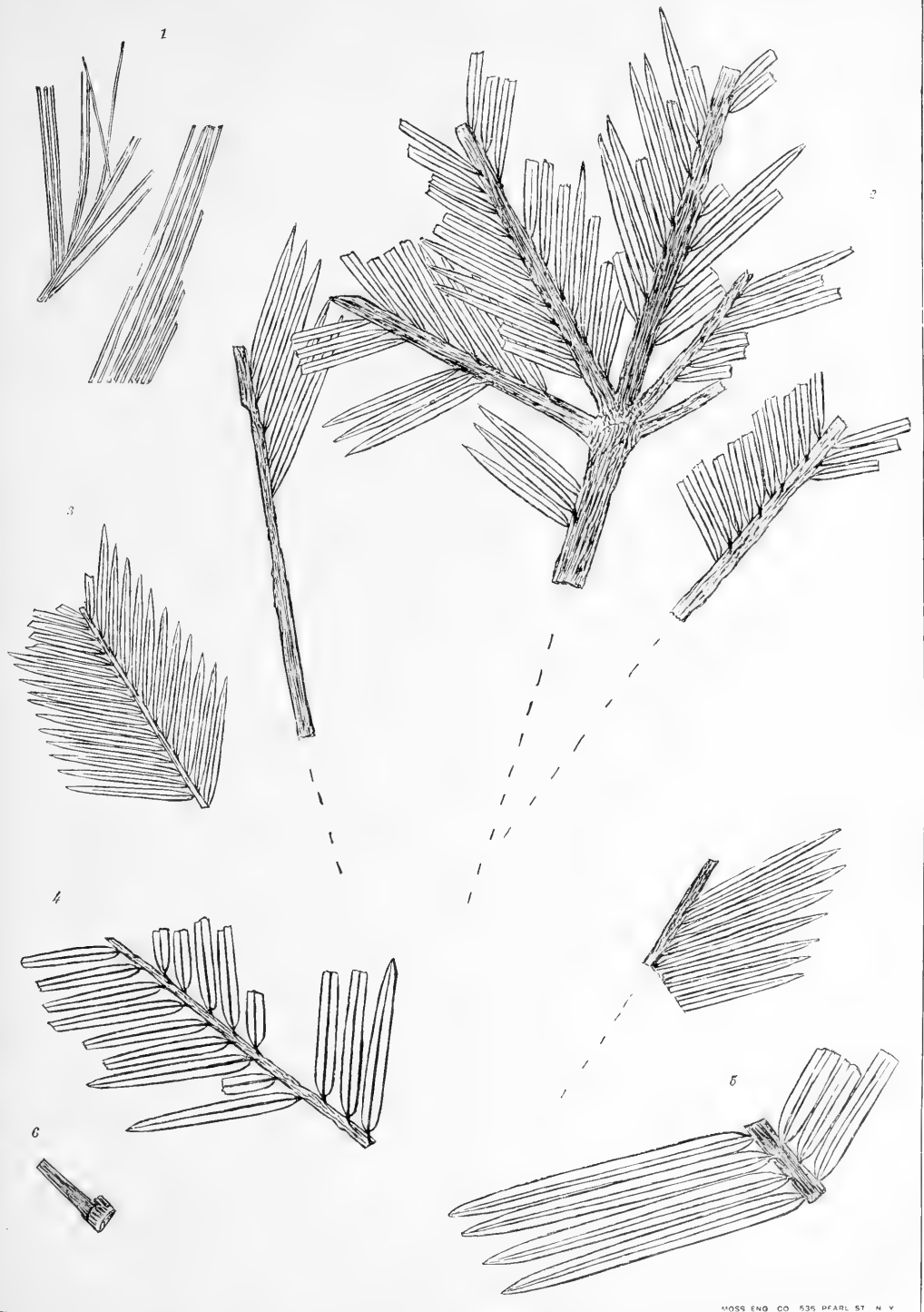
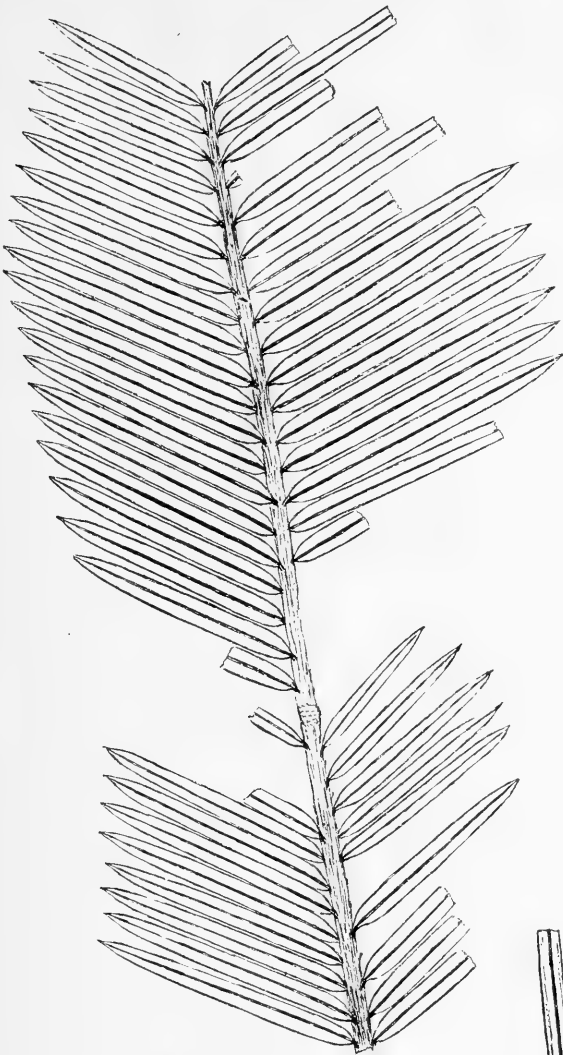


PLATE CV.

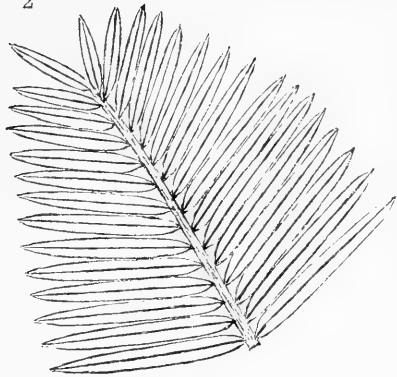
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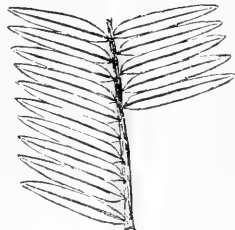
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1^b



3



1^a



4

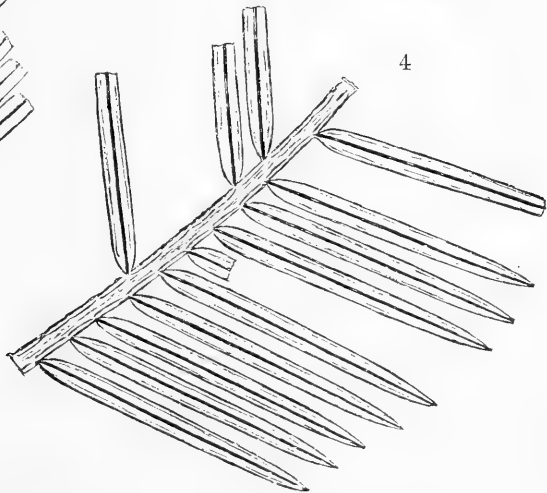
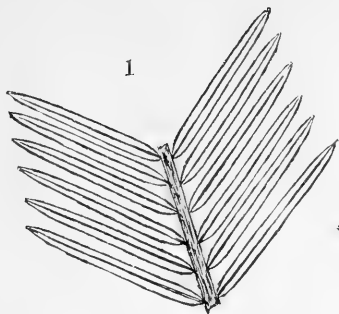


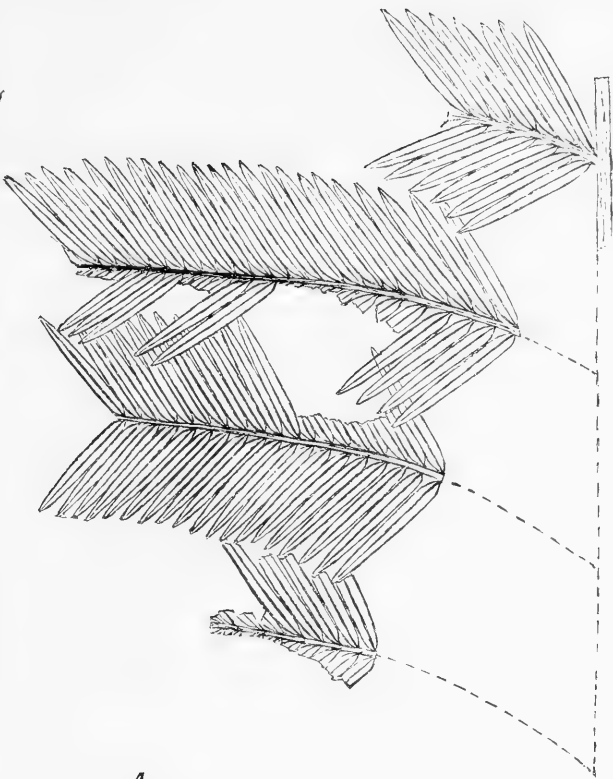
PLATE CVI.

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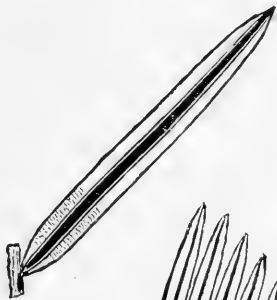


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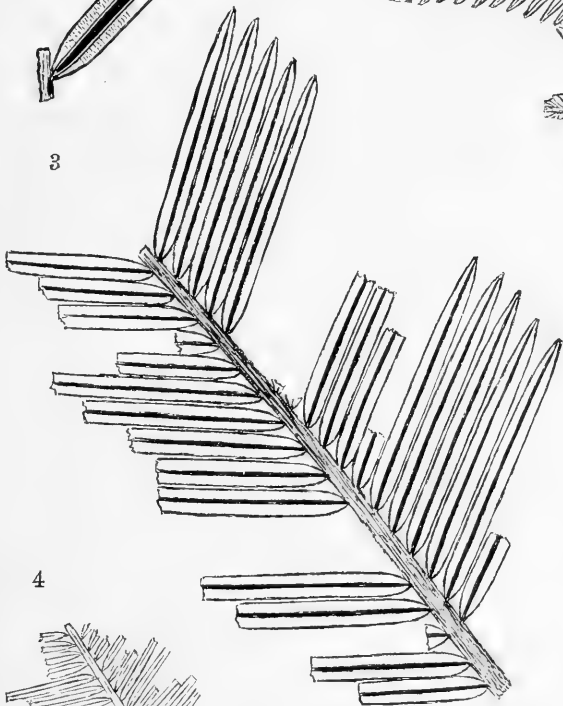


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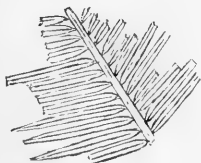
1^a



3



4



5



4^a

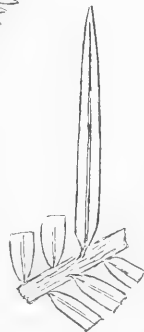


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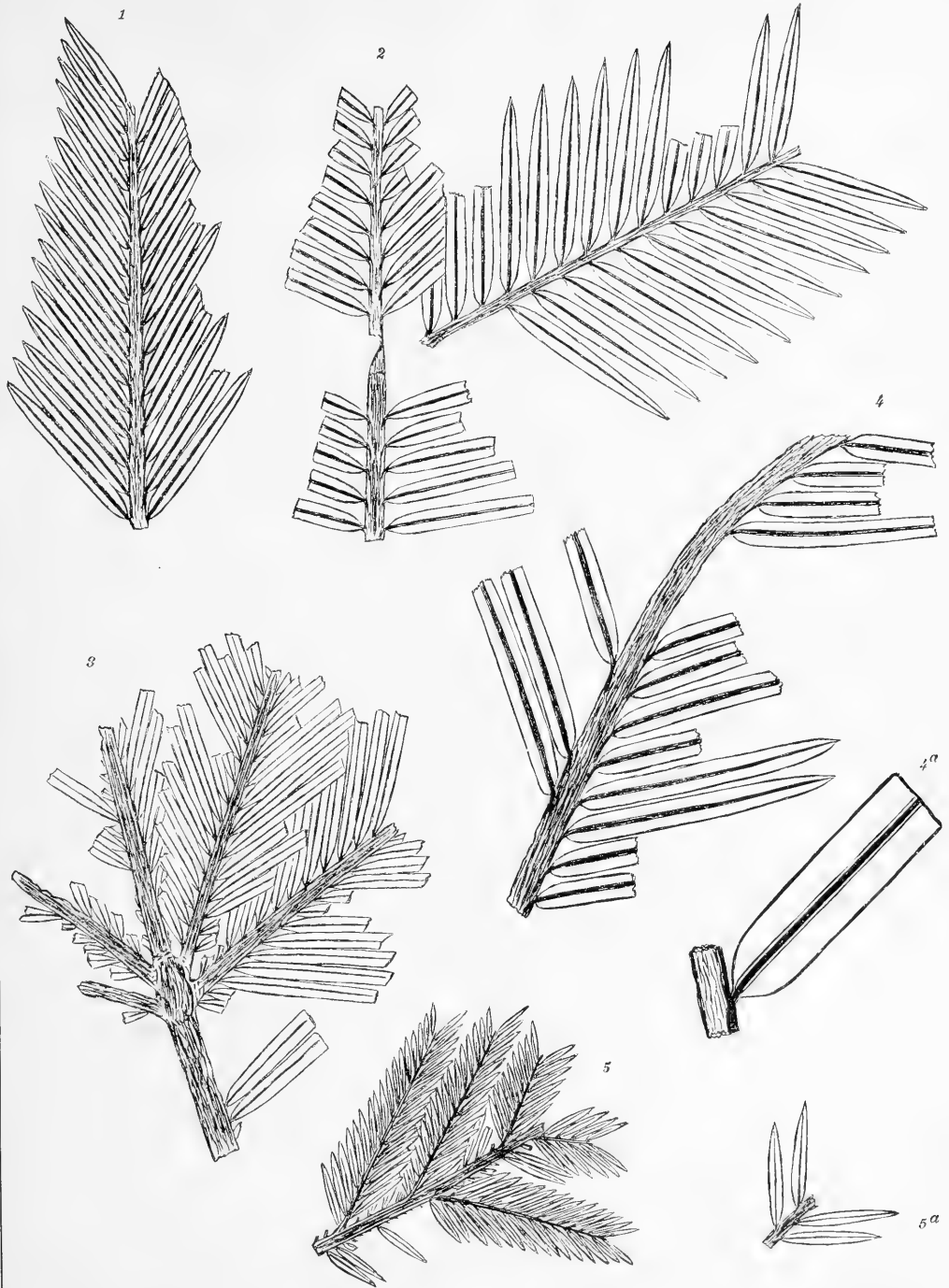


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PLATE CVIII.

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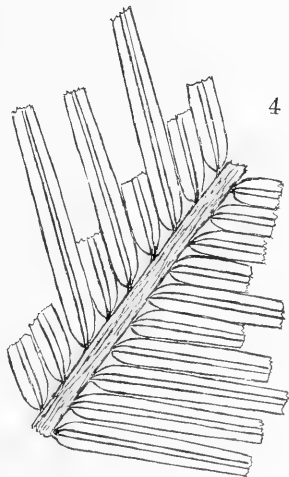
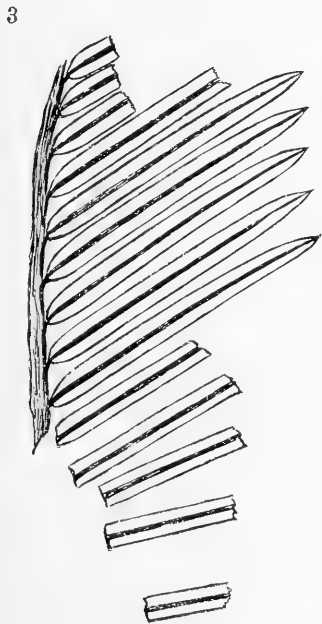
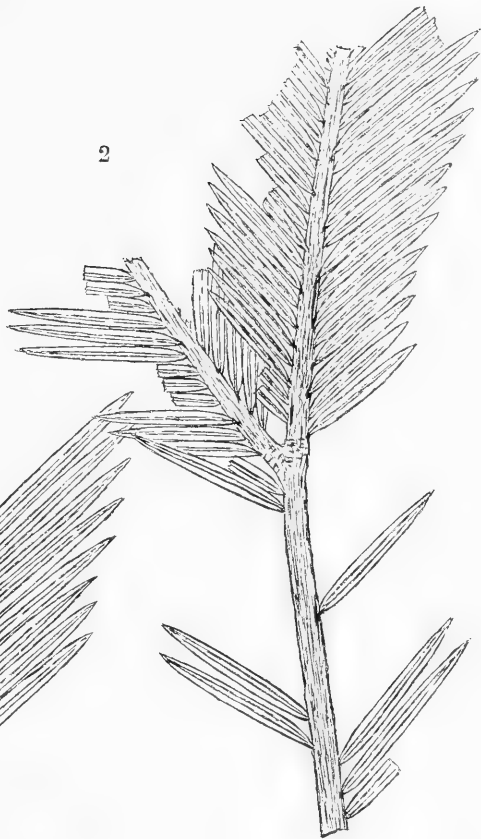
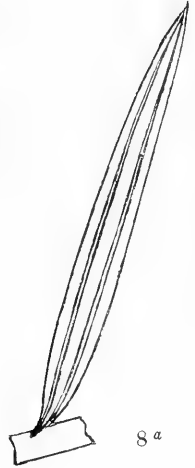
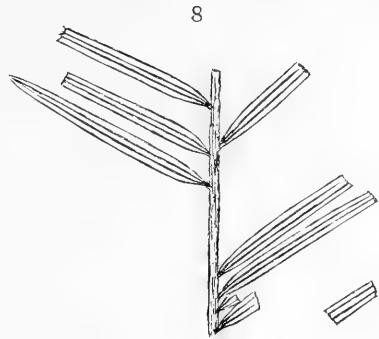


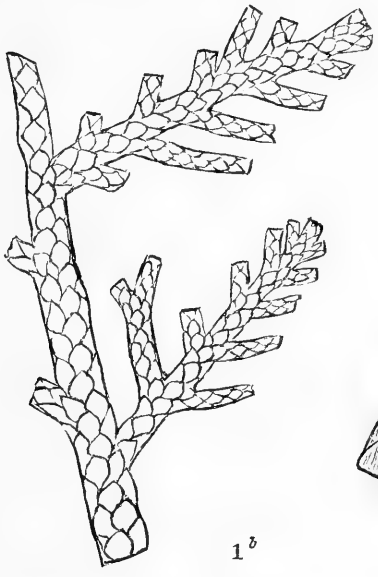
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PLATE CIX.

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1



3



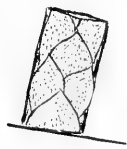
7



2



1^b



6



4



5



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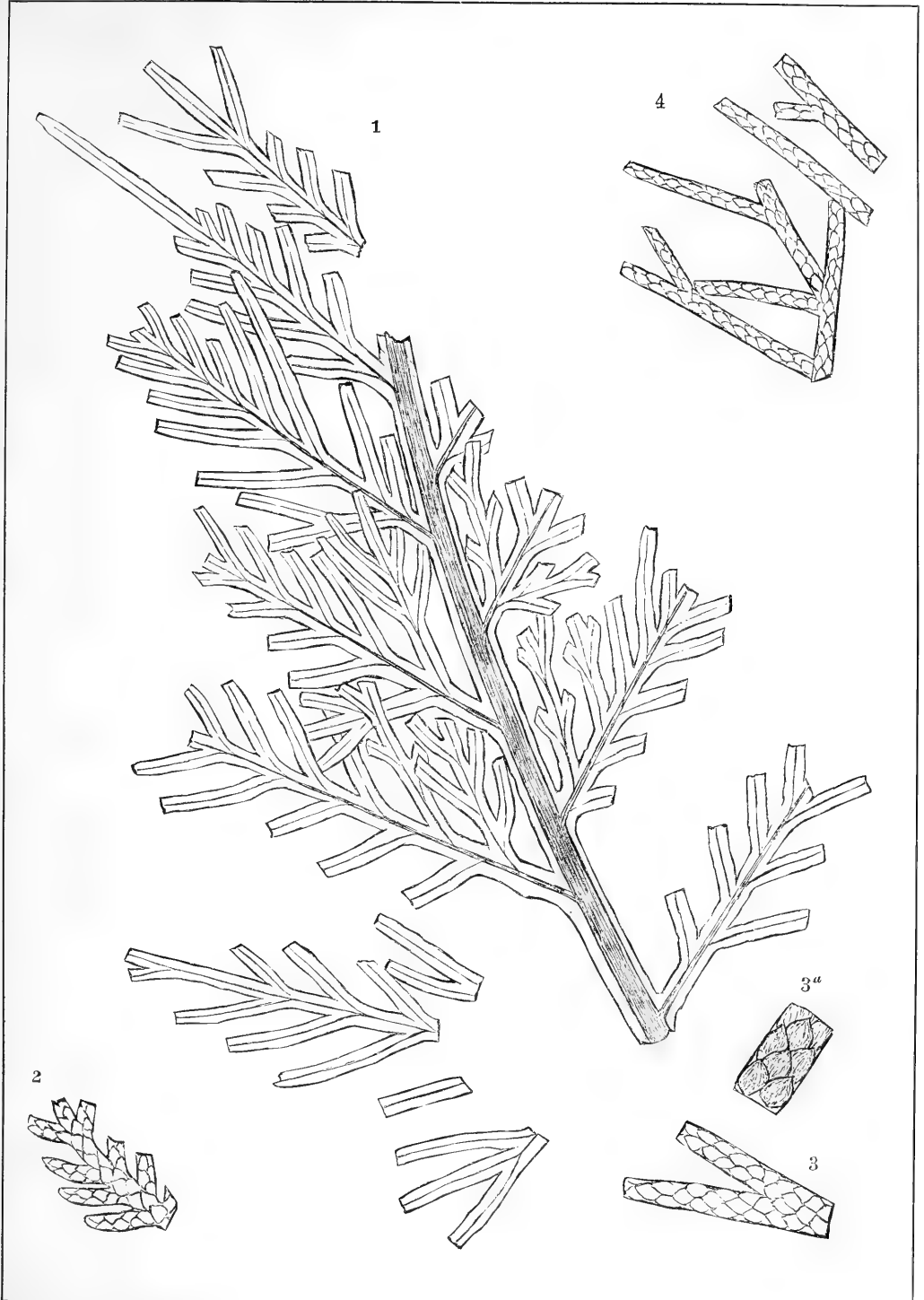


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PLATE CXI.

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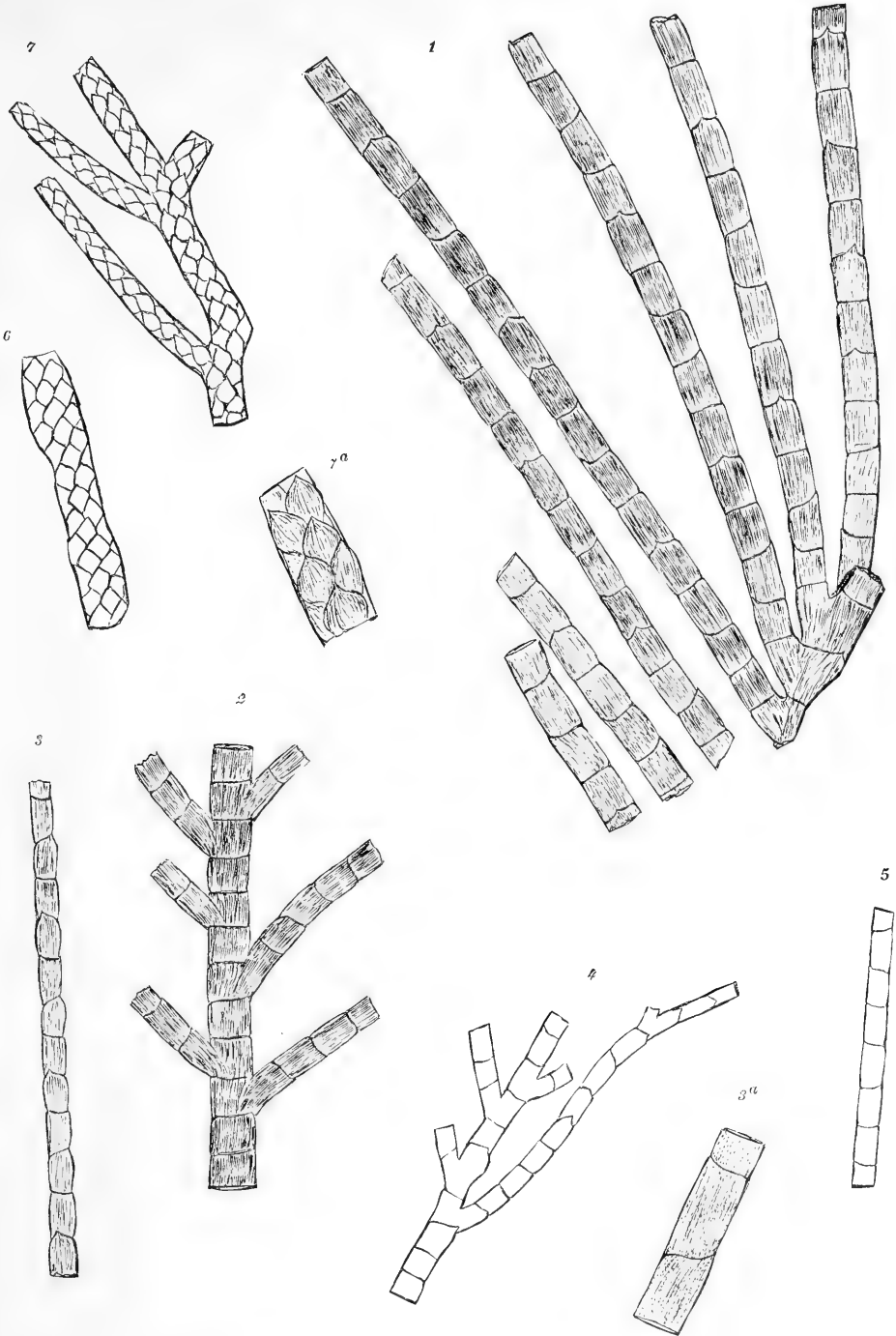


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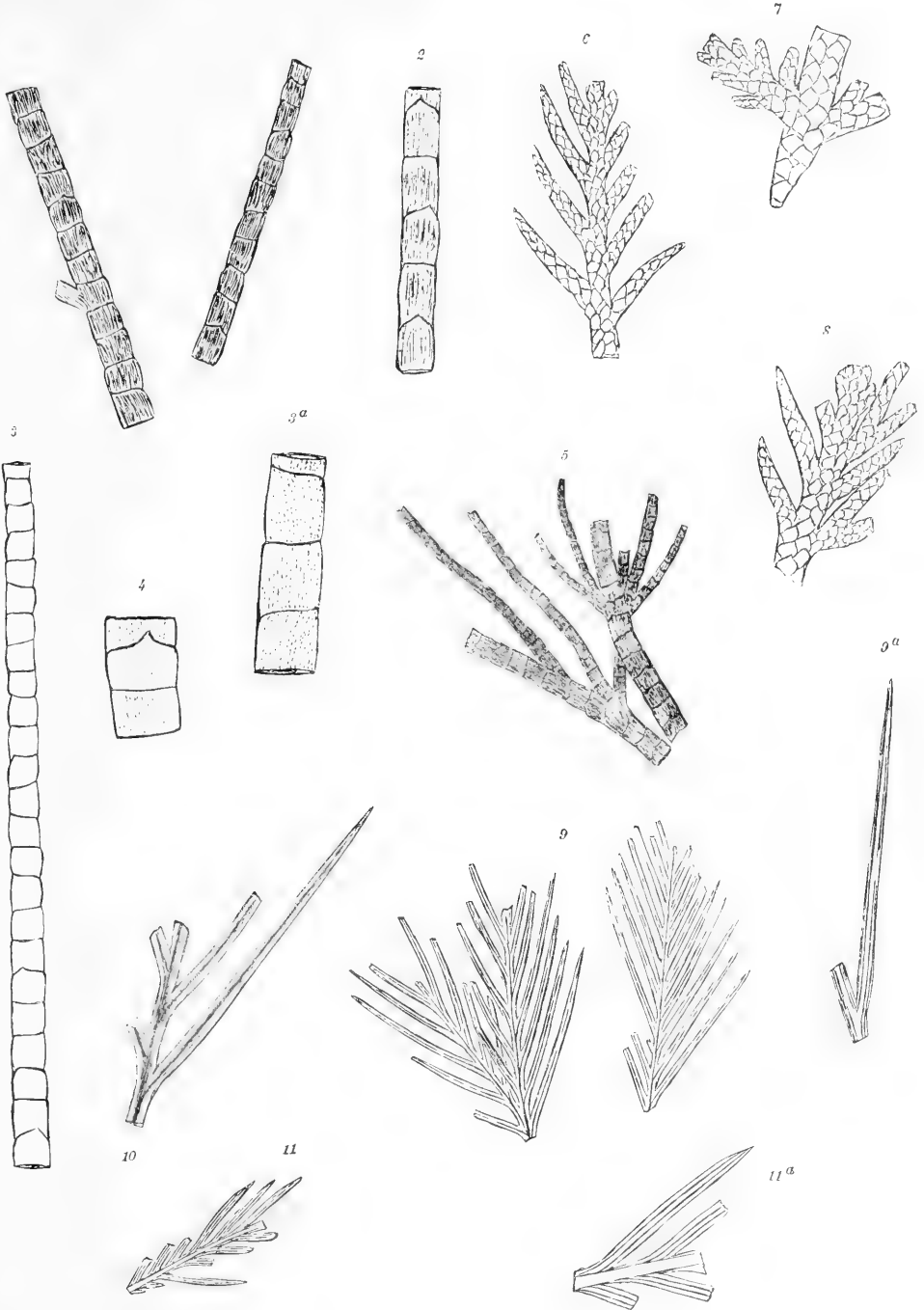


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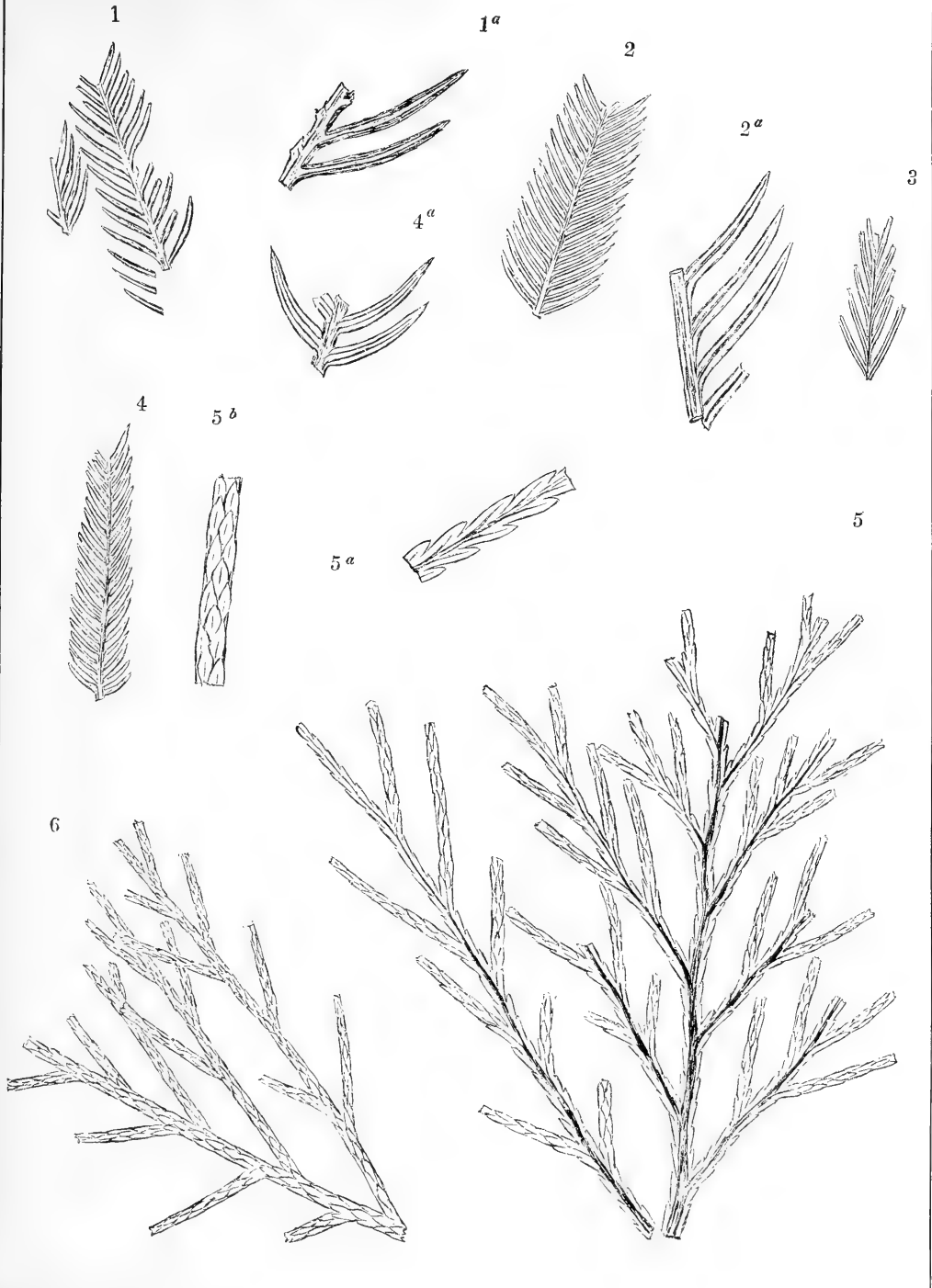


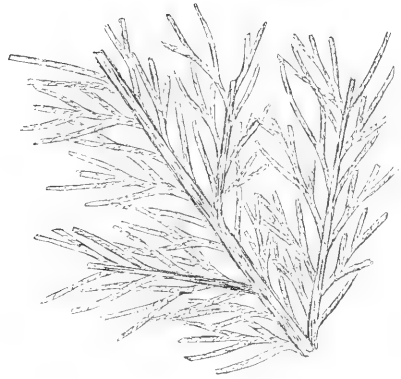
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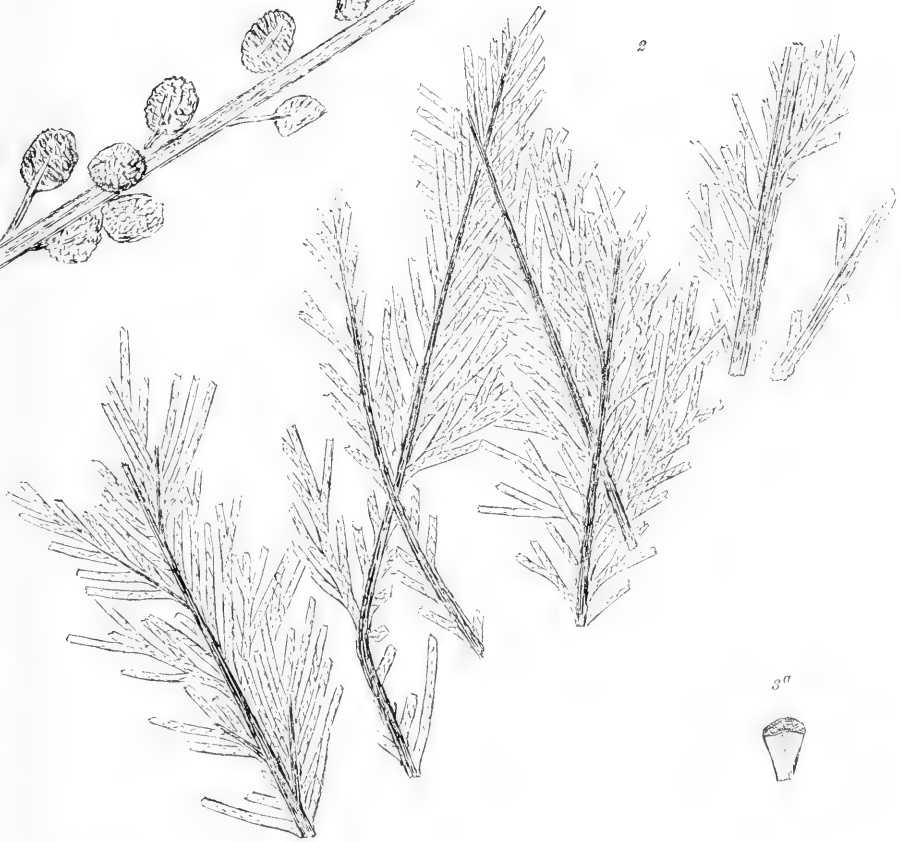
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5



2



3^a



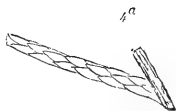
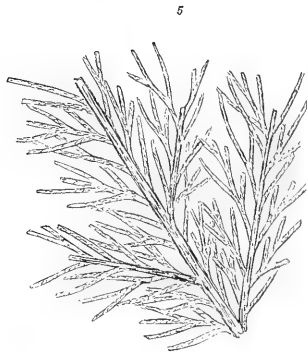


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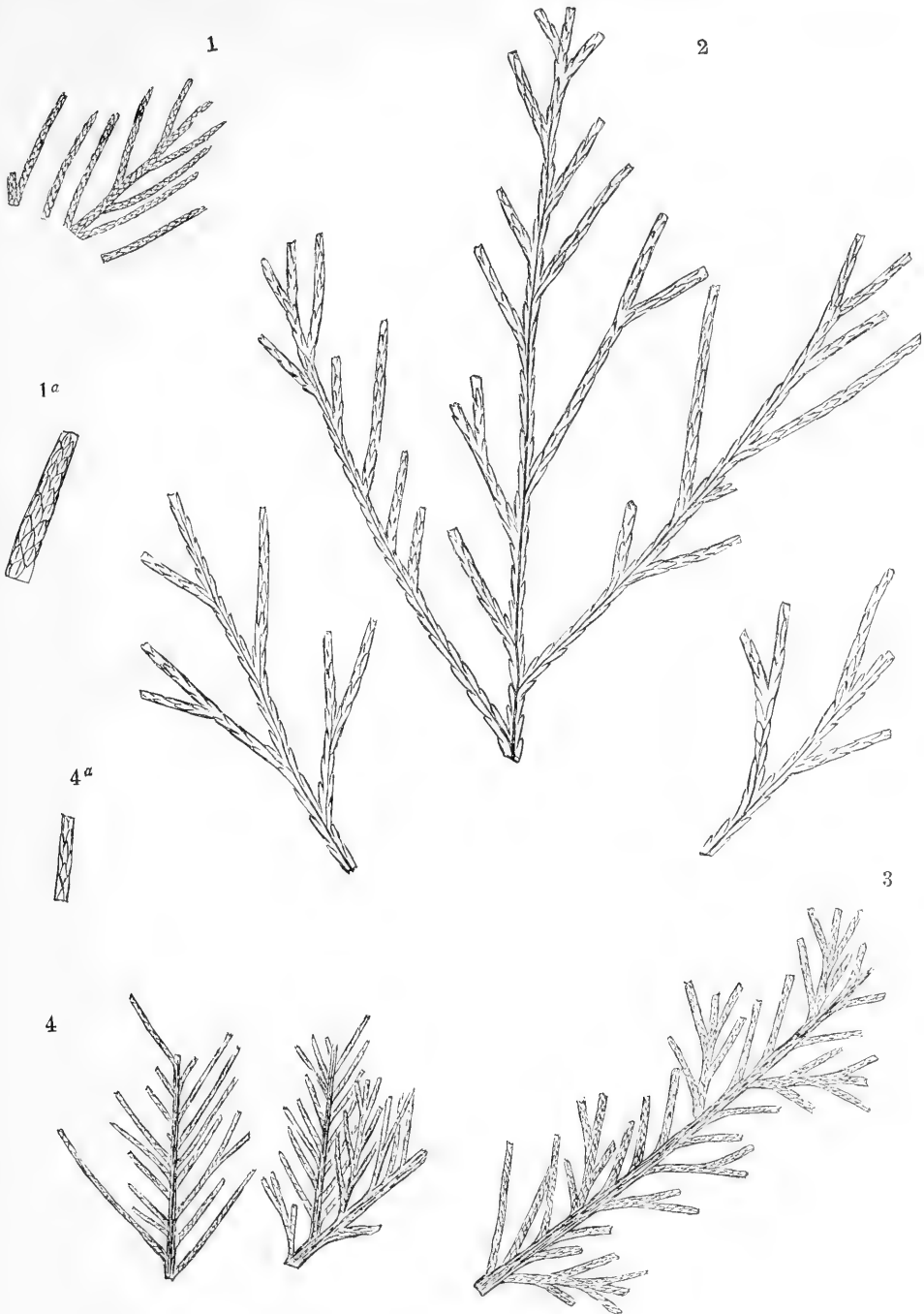


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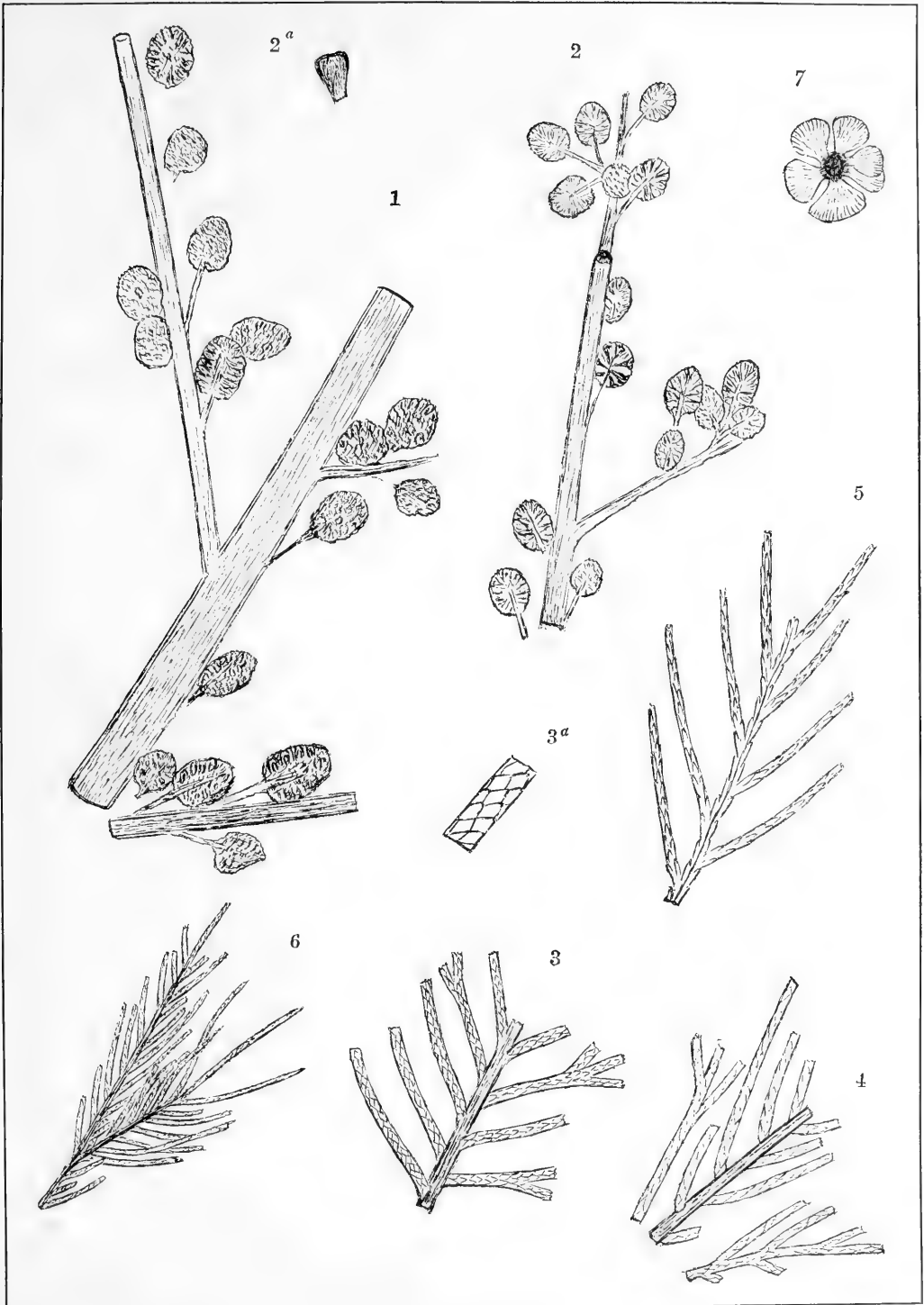


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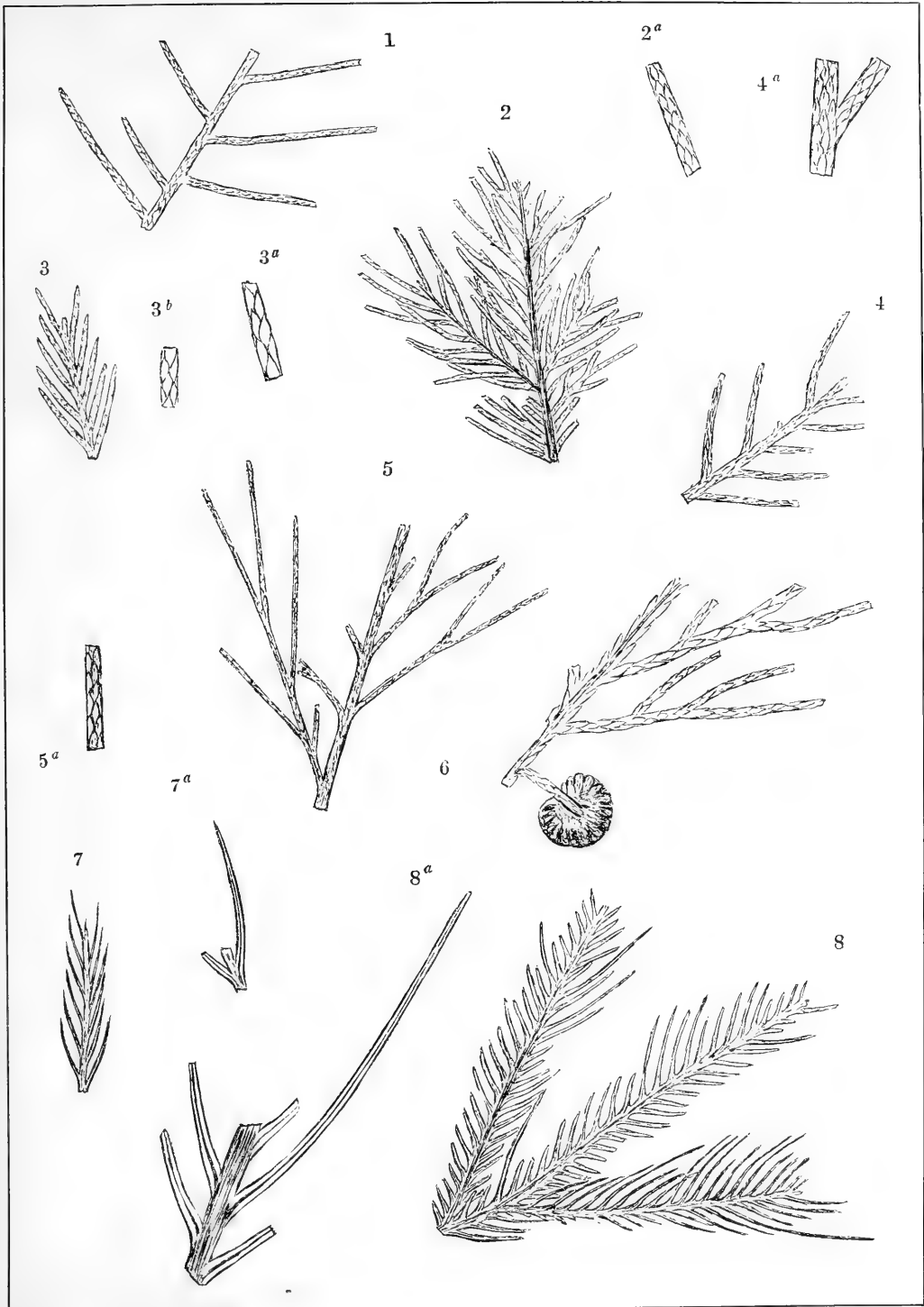




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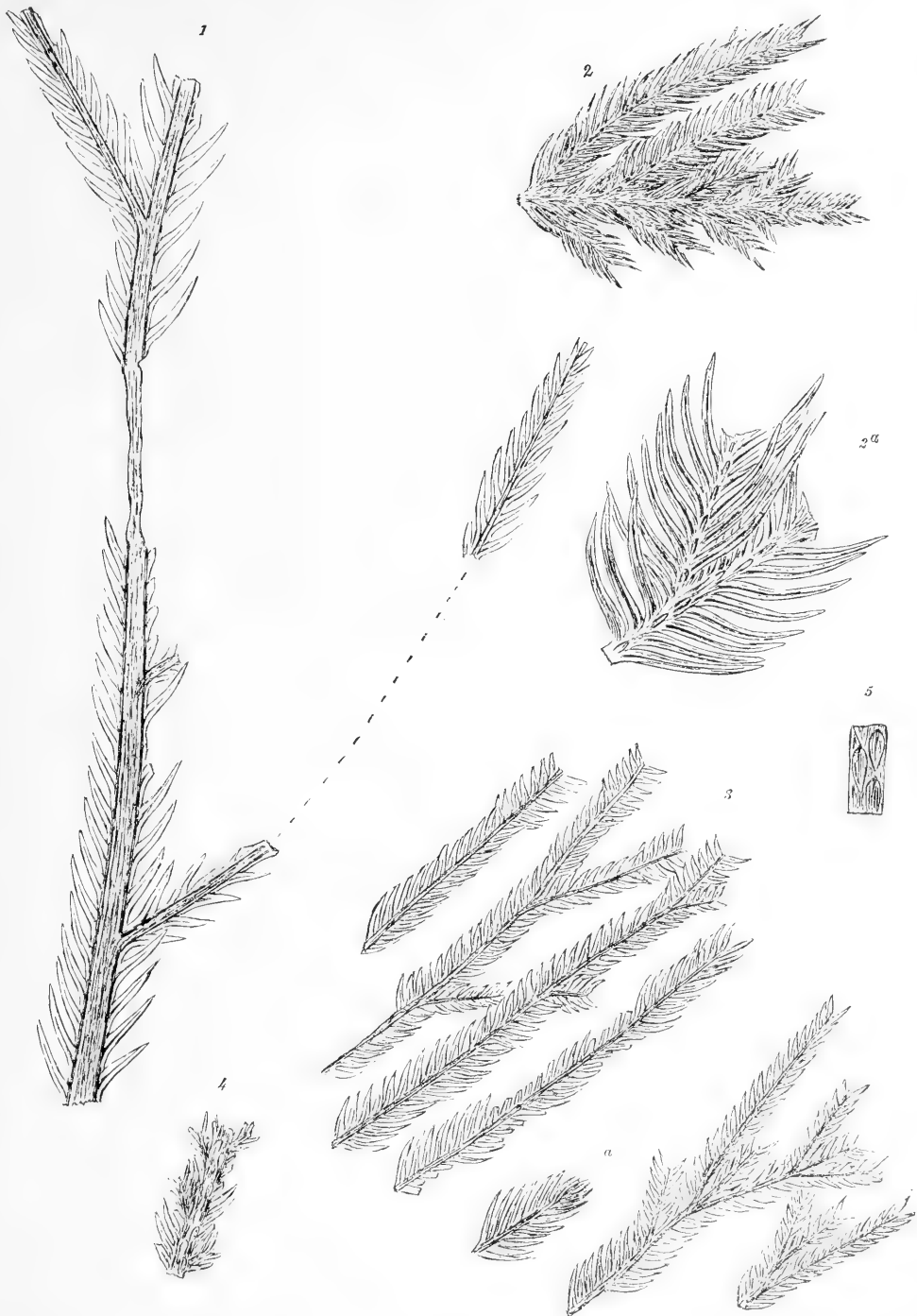


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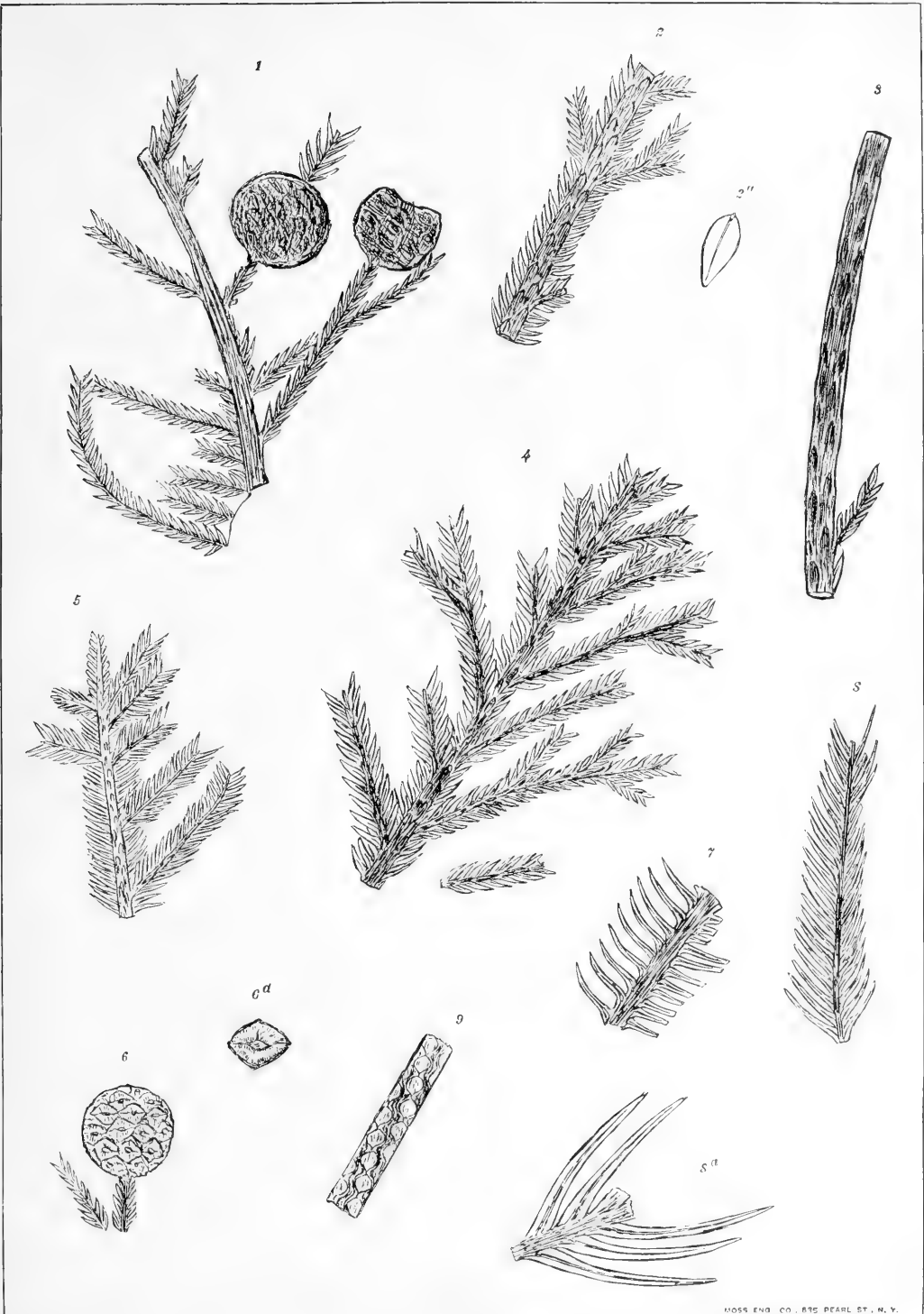


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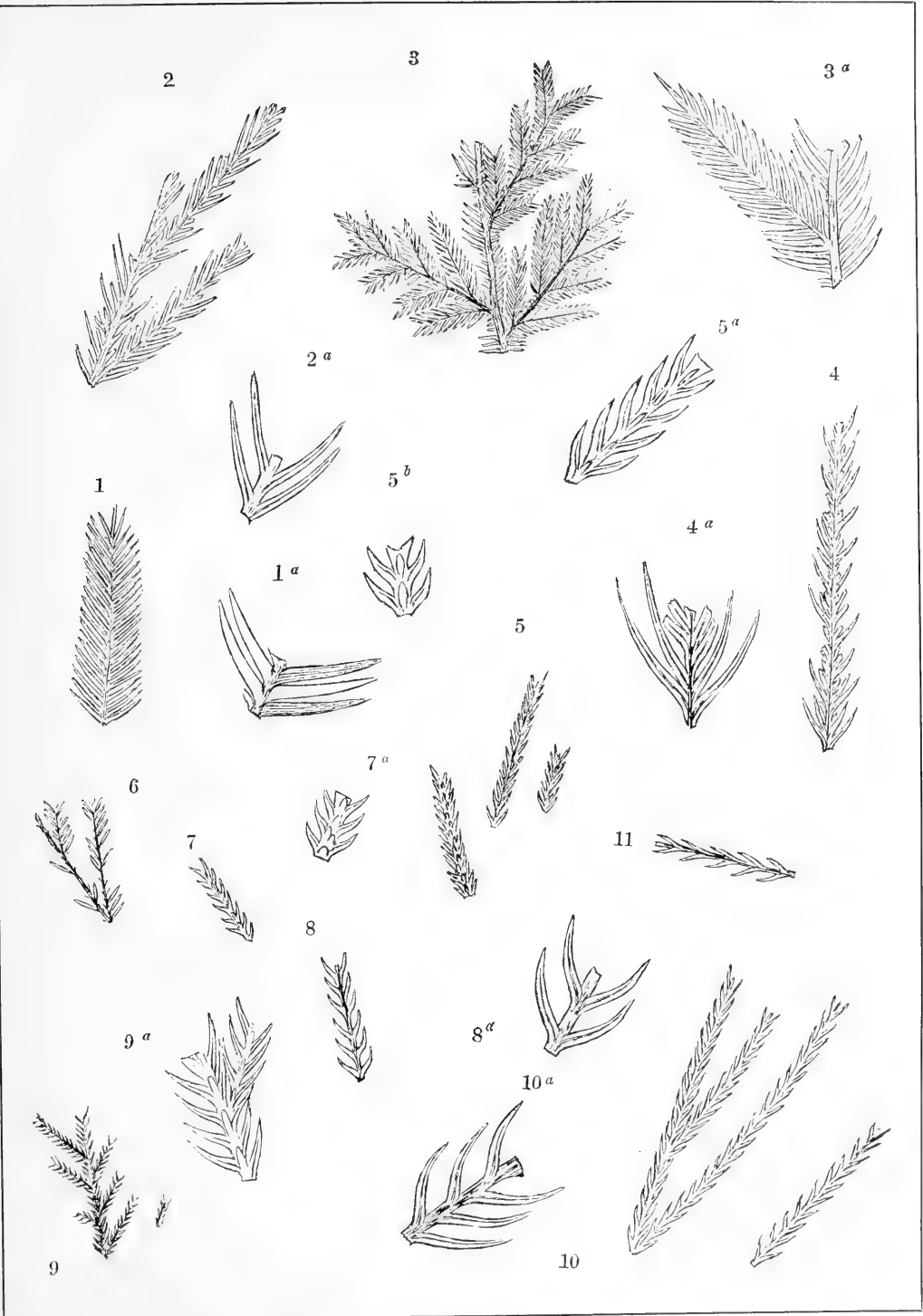


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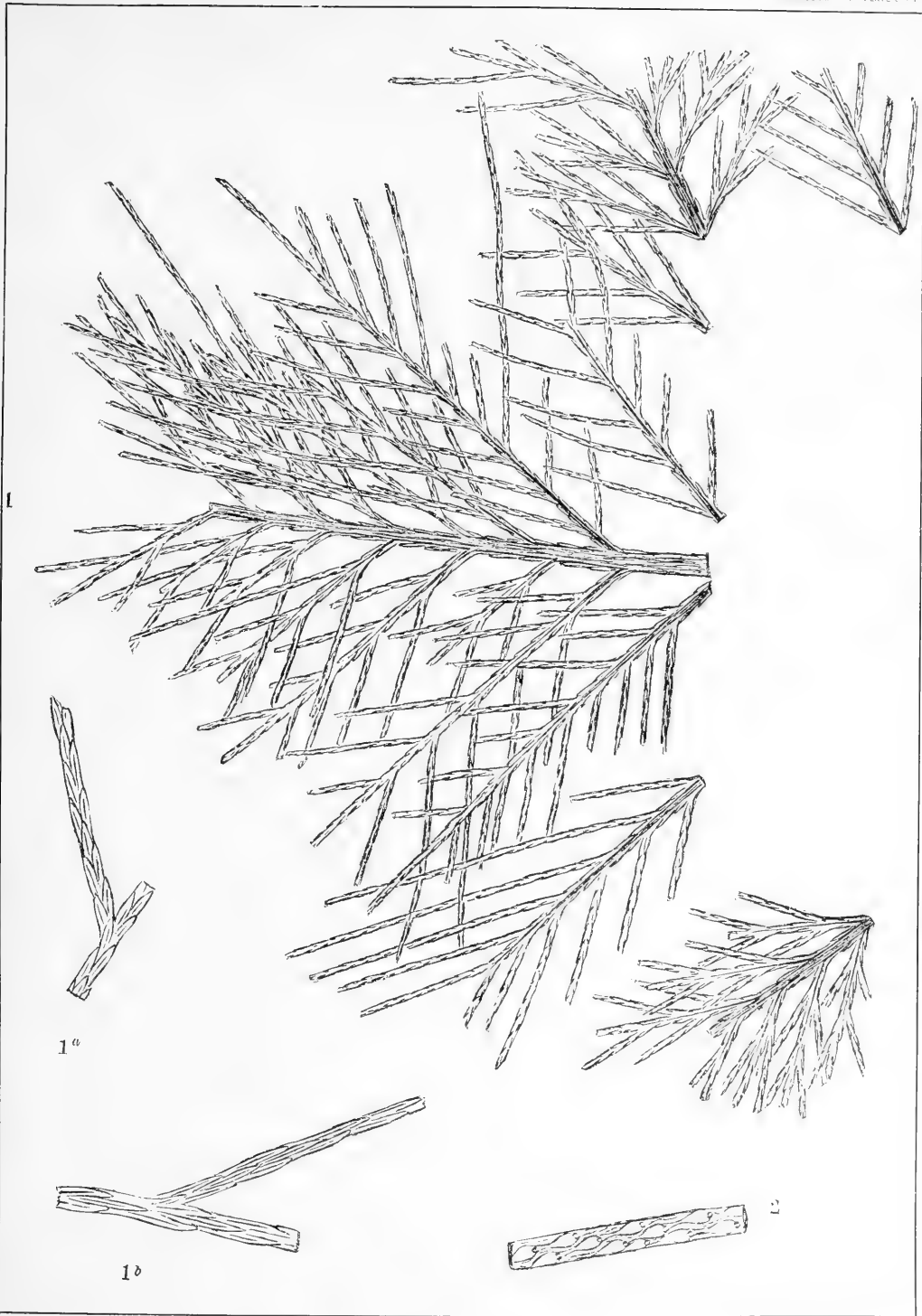


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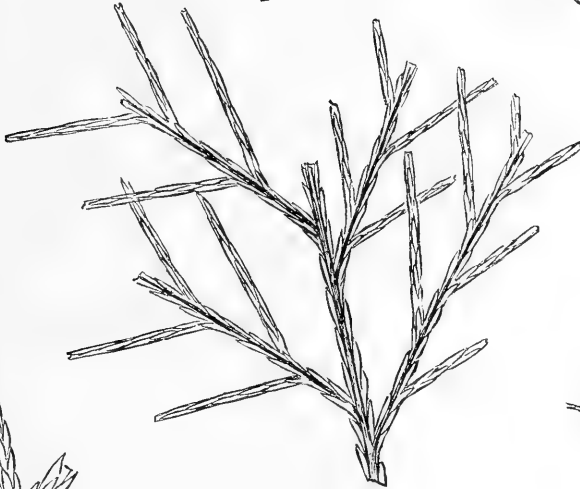


1^a

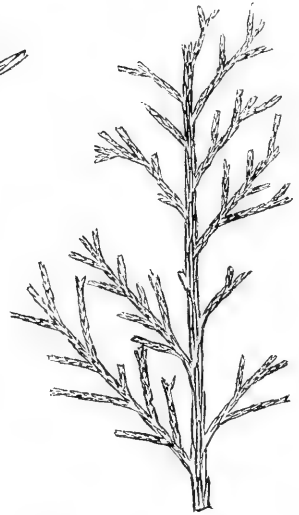
1^b



1



2

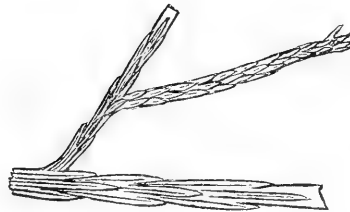
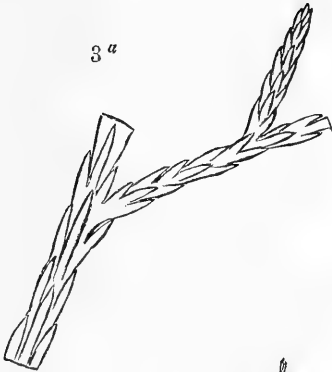


3^b



2^a

3^a



3



PLATE CXXIV.

PLATE CXXIV.

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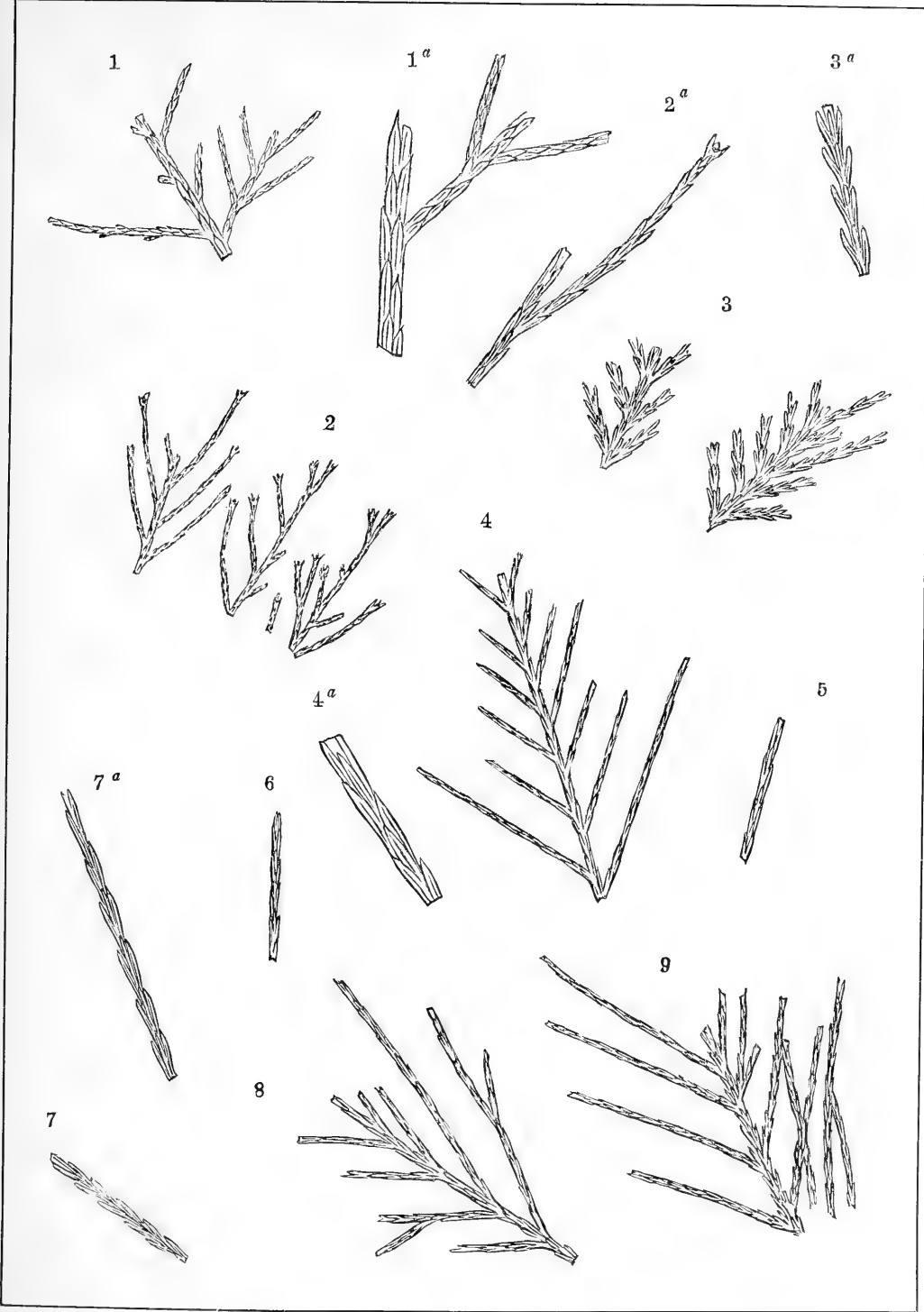


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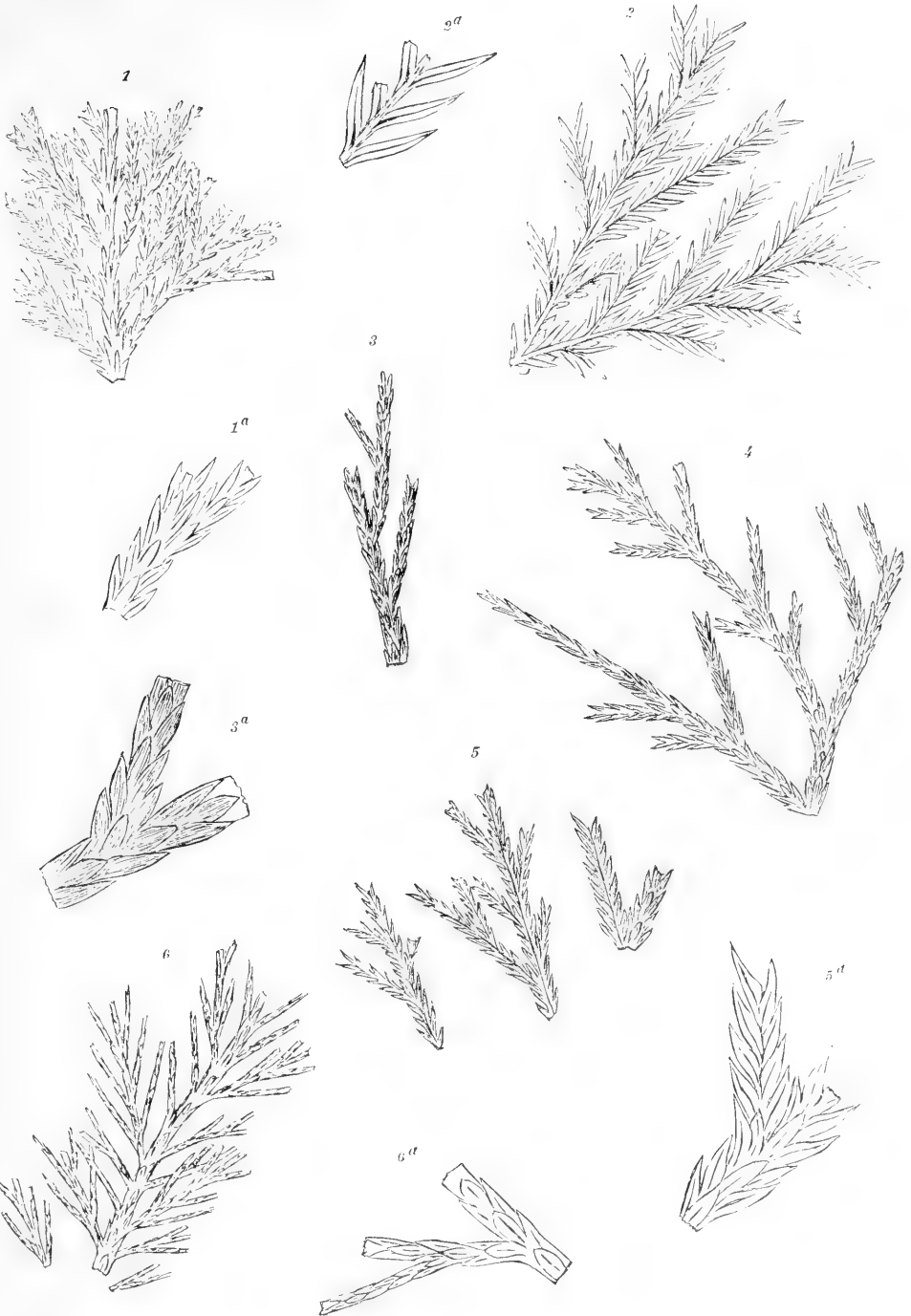


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1



2



4



2^a



3



a

5

5^a



PLATE CXXVIII.

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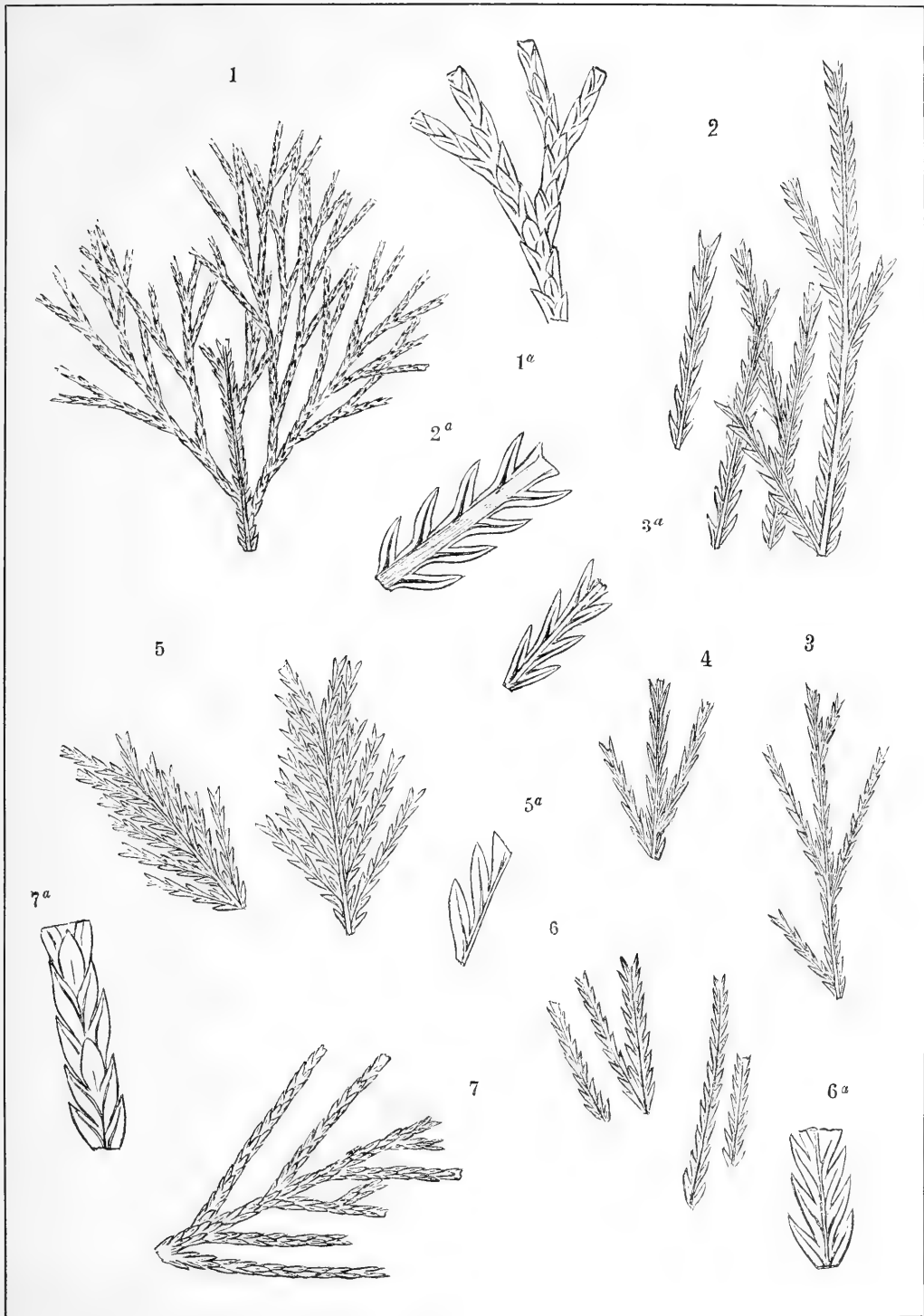


PLATE CXXIX.

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1



2



3



3^a



1^a



5



4



4^a



6



7



7^b



8



8^a



7^a



PLATE CXXX.

PLATE CXXX.

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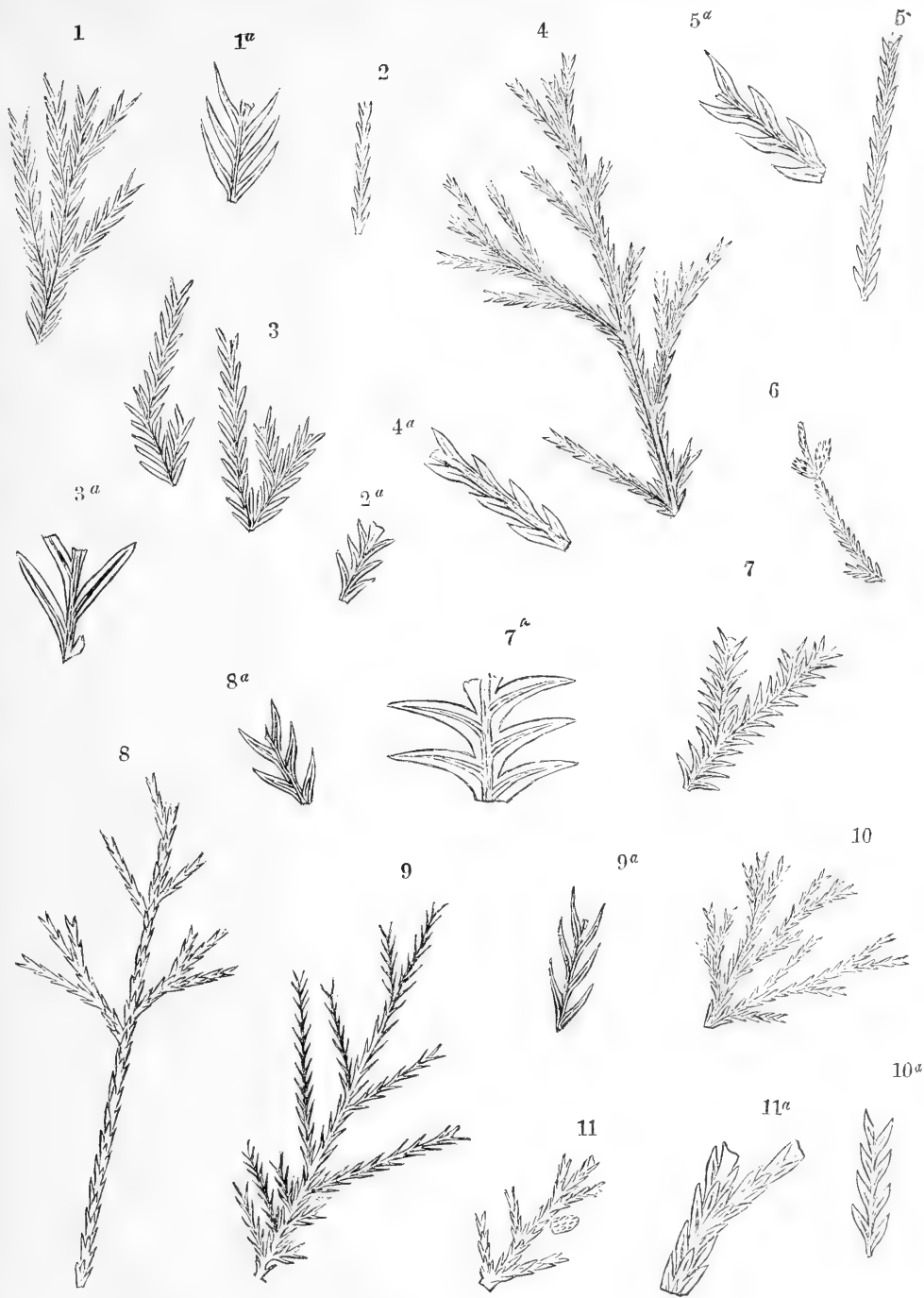


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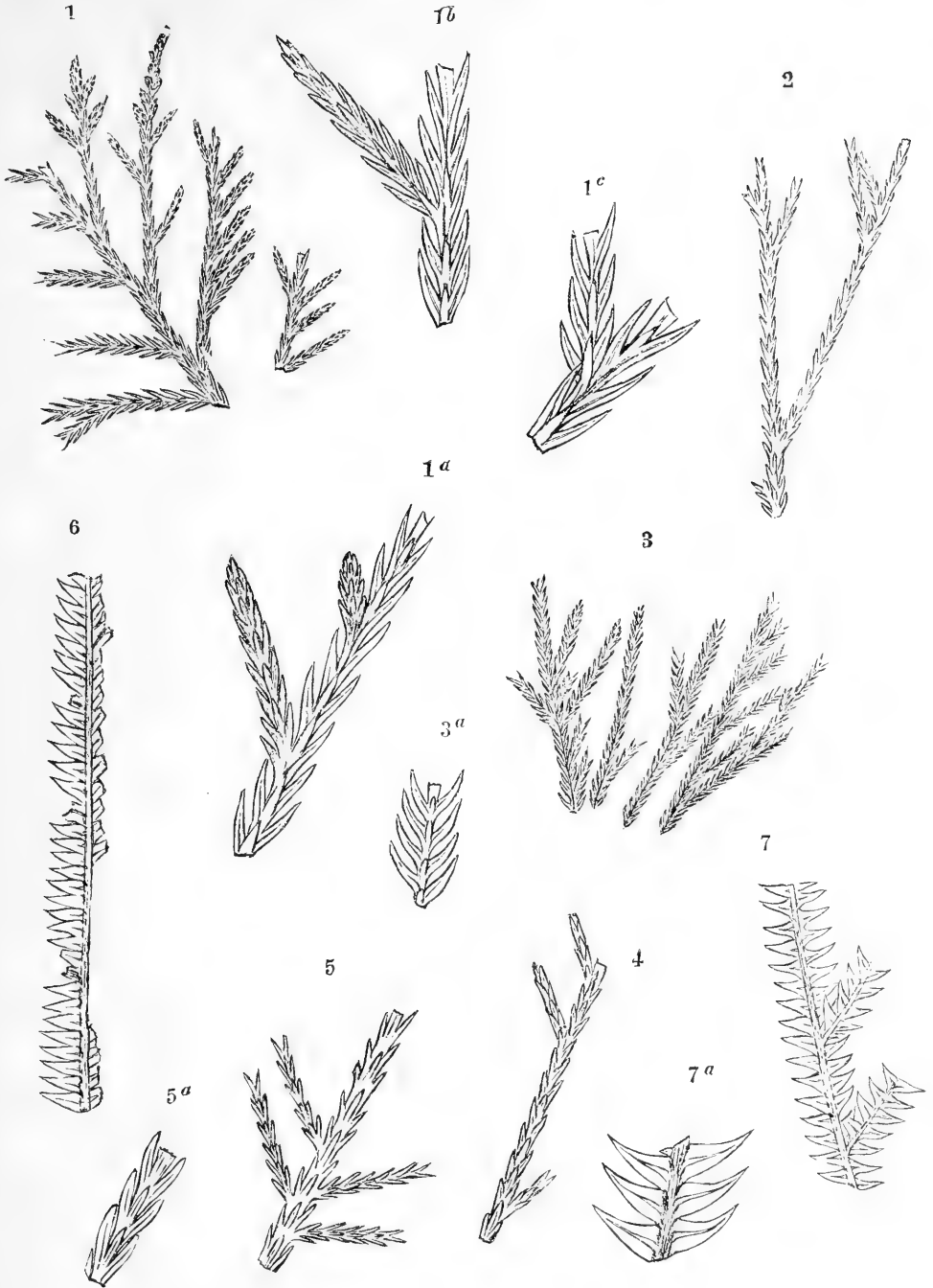


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PLATE CXXXIII.

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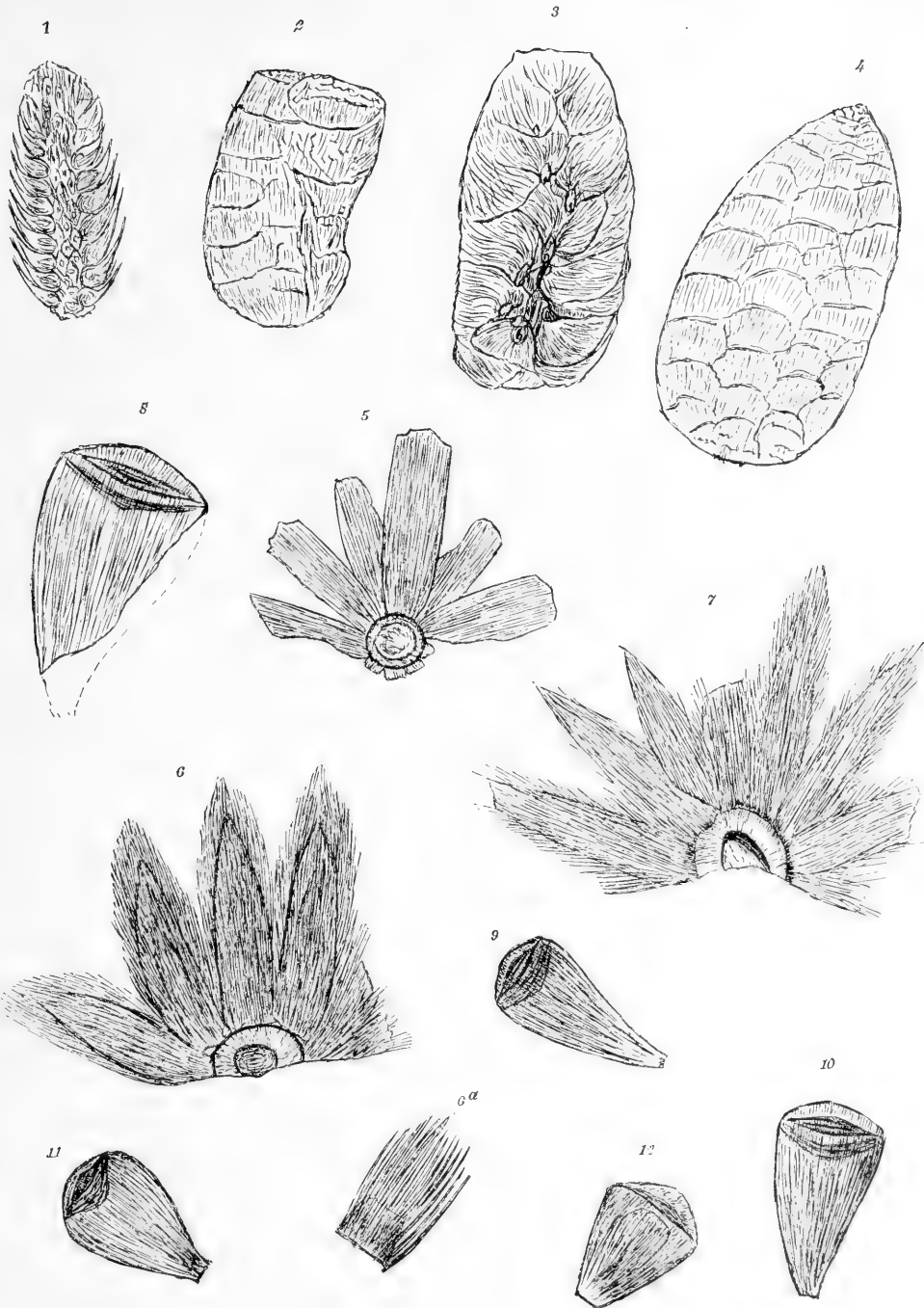


PLATE CXXXIV.

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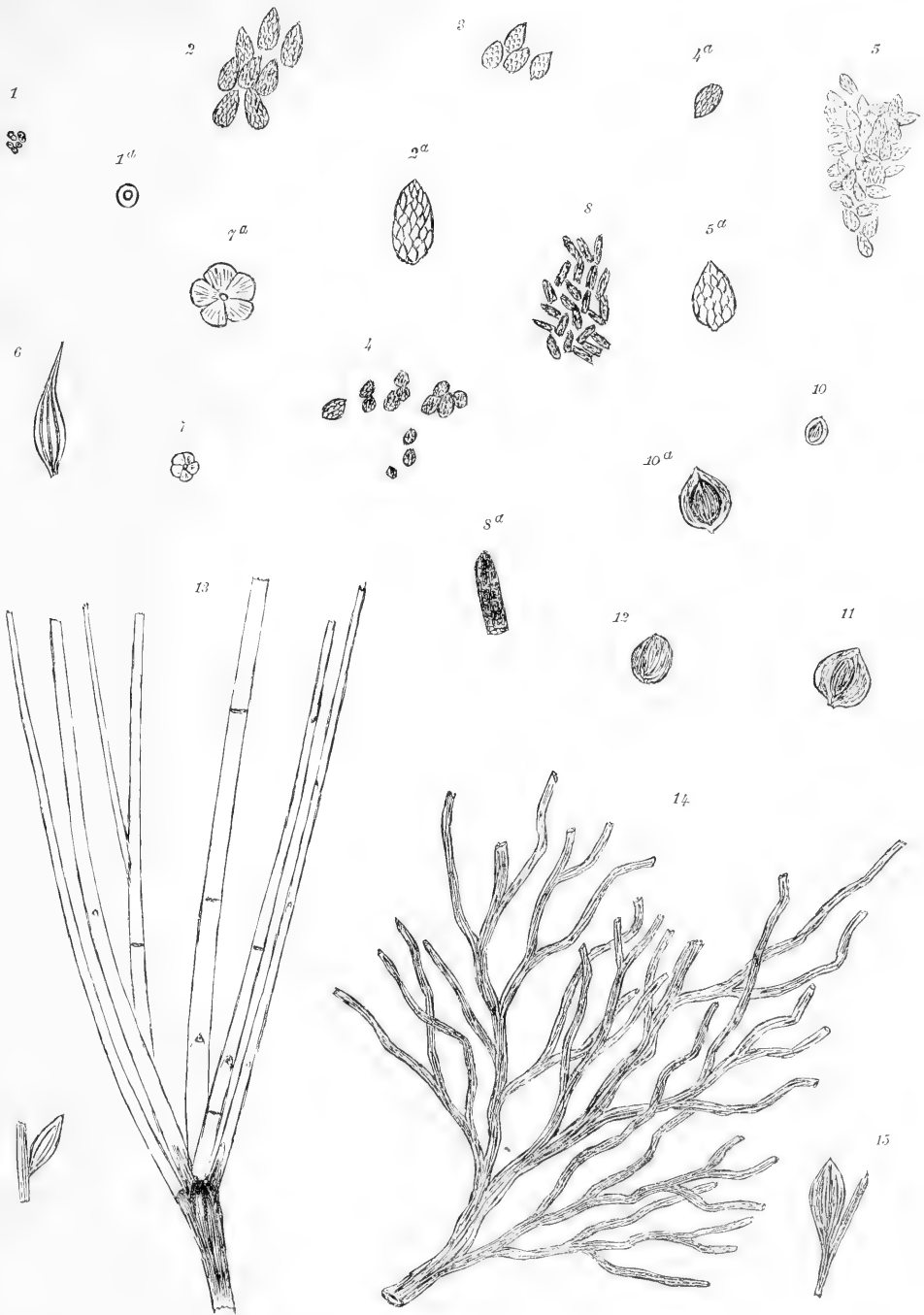


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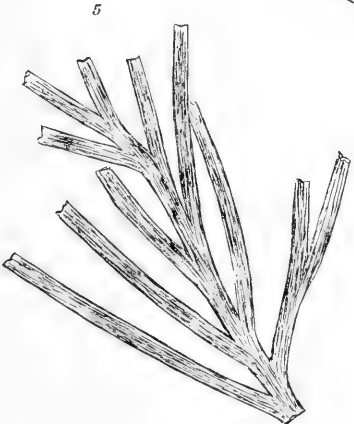
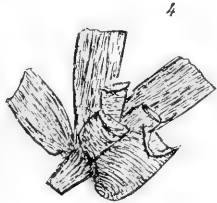
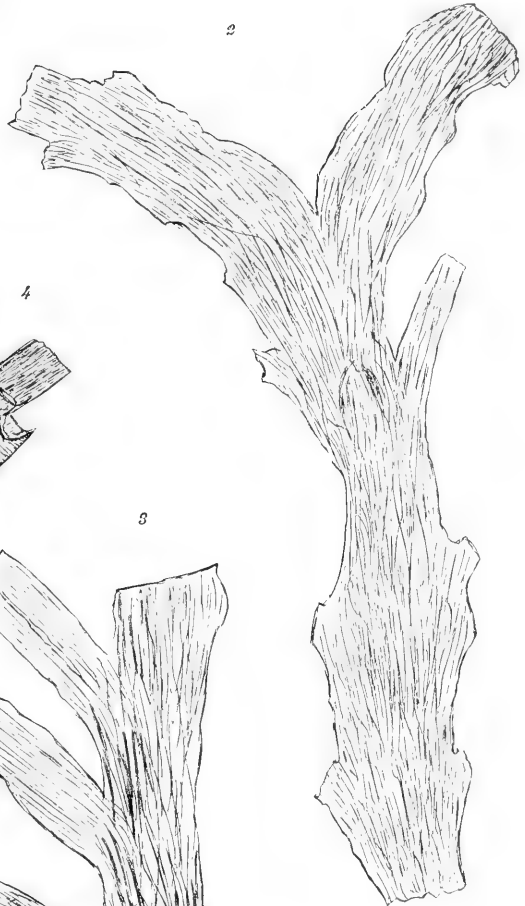


PLATE CXXXVIII.

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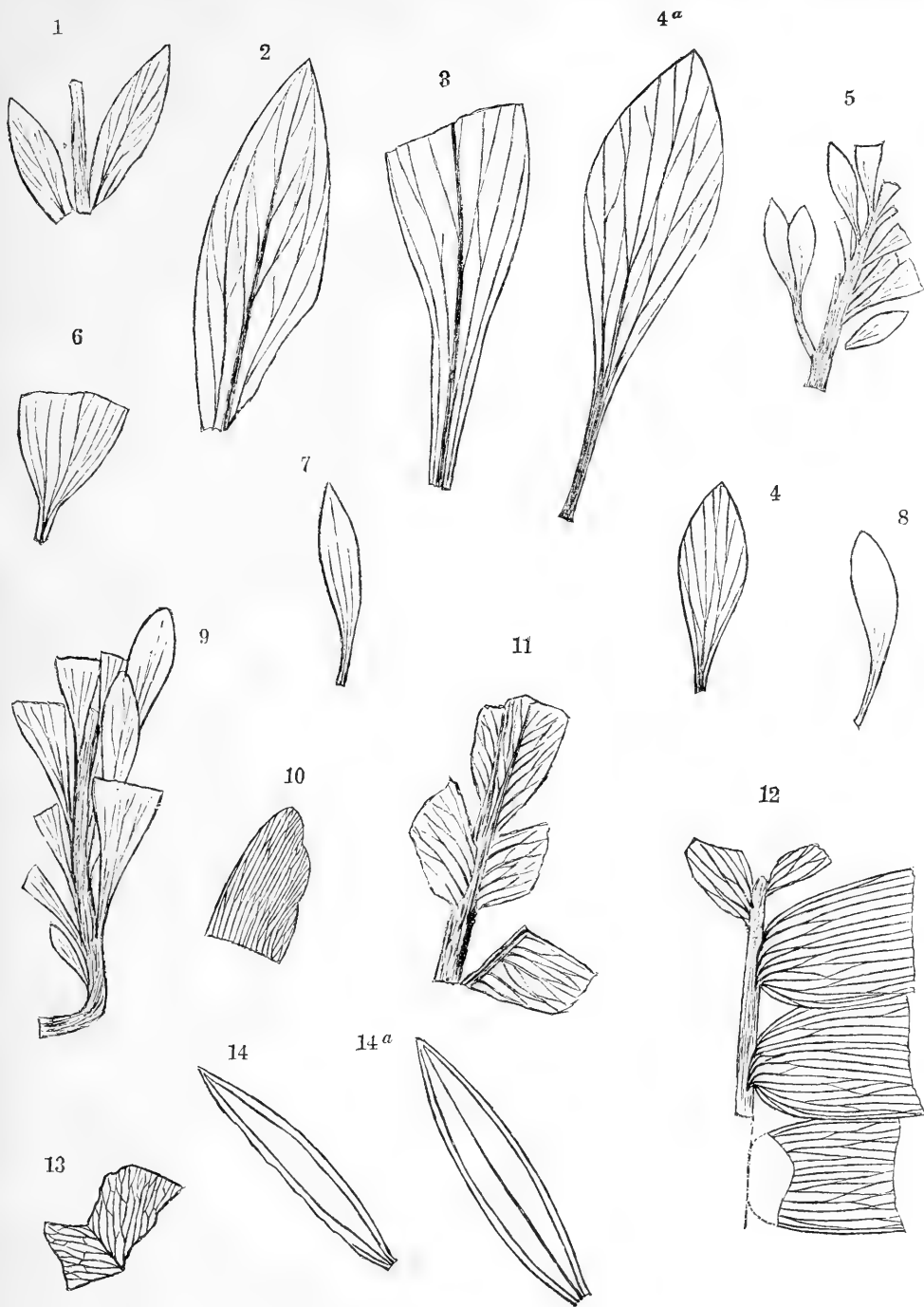


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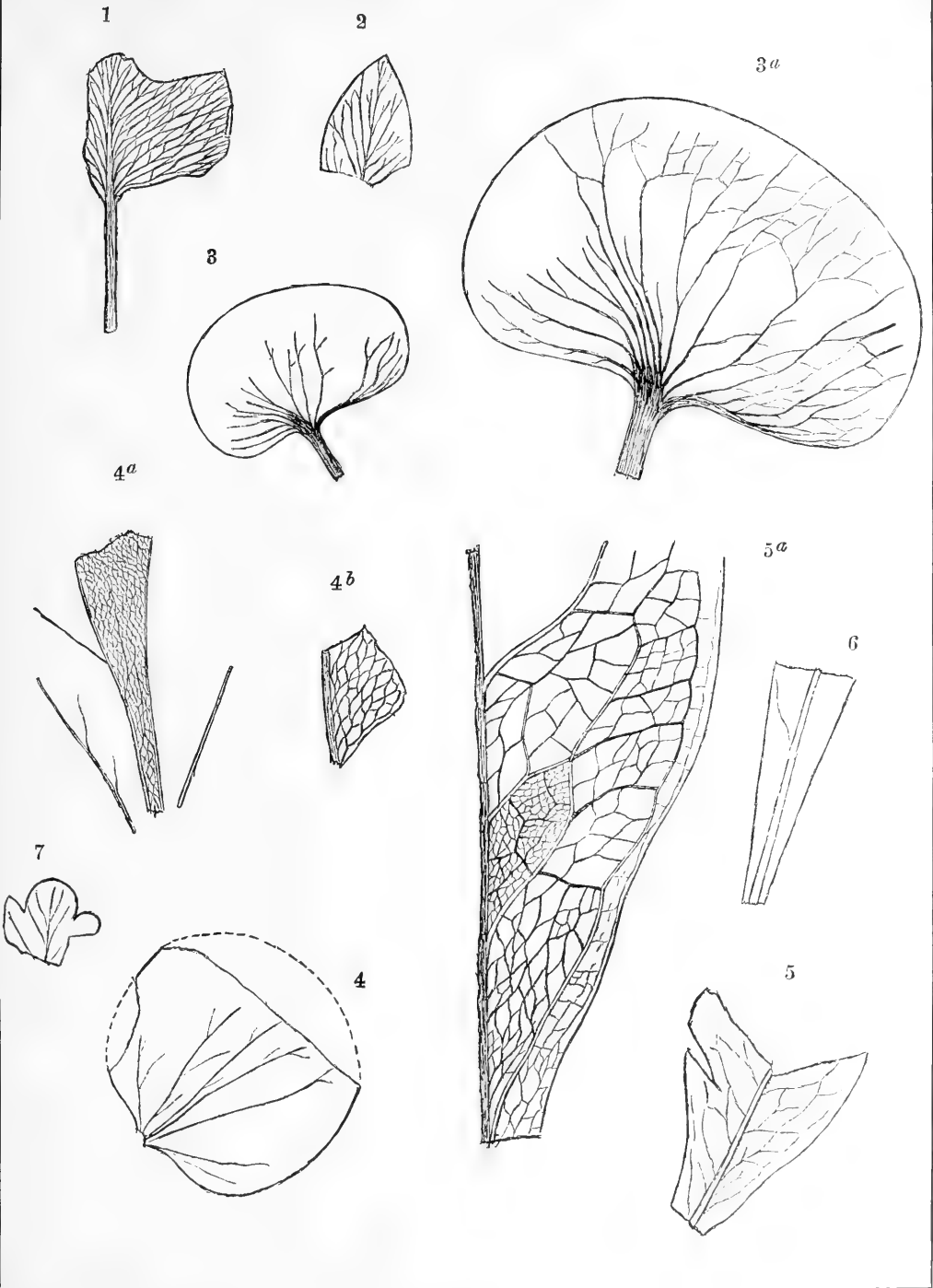
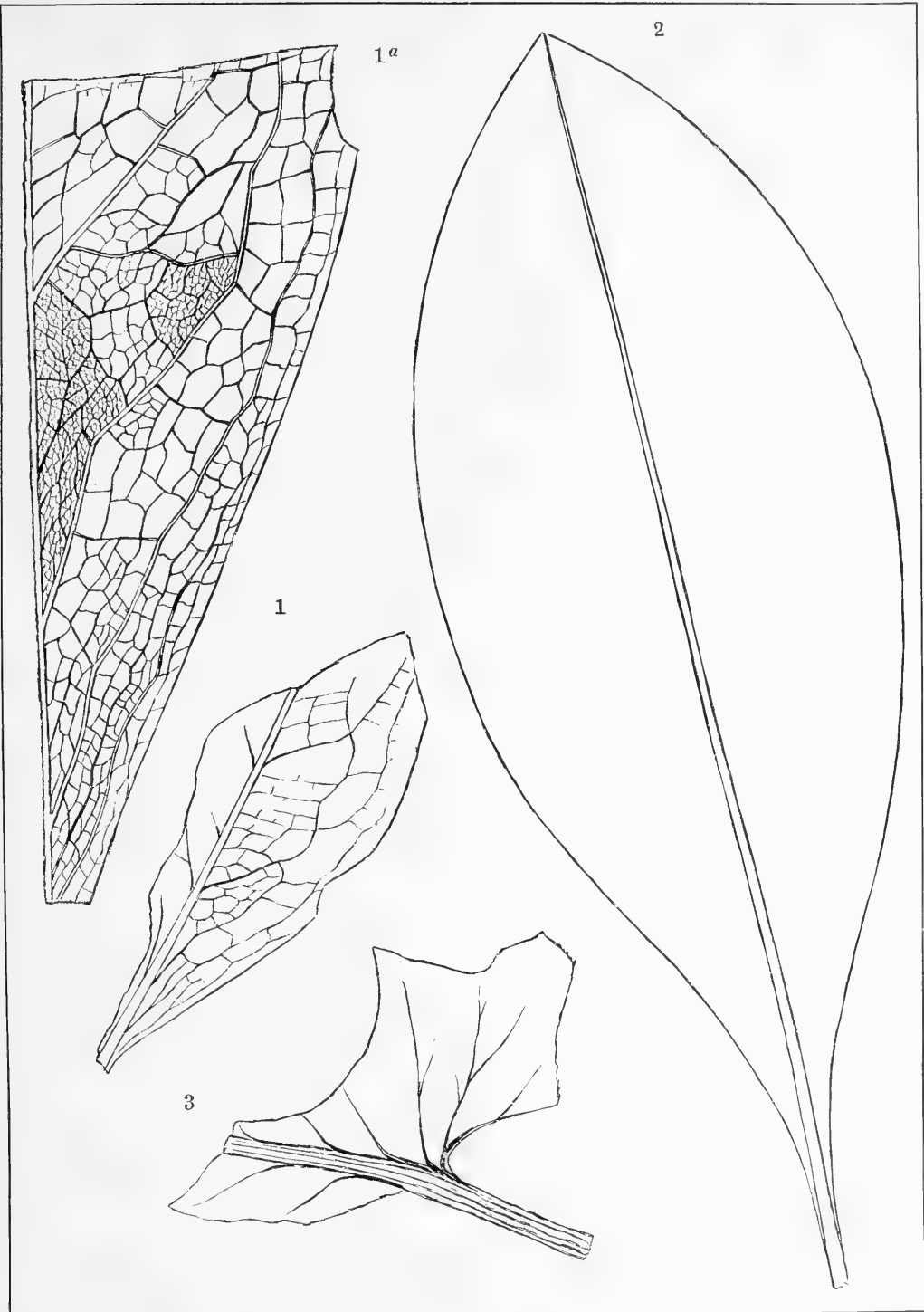


PLATE CXL.

PLATE CXL.

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3. Fragment of an unusually large leaf.	292



1^a

2

1

3

PLATE CXLI.

PLATE CXLI.

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1*. Part of 1 magnified three diameters.....	285
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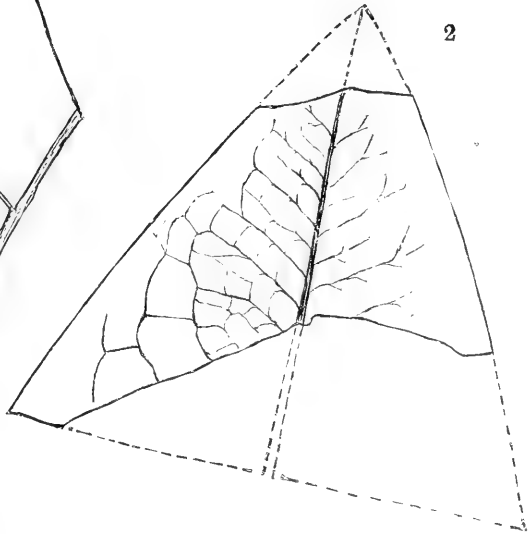
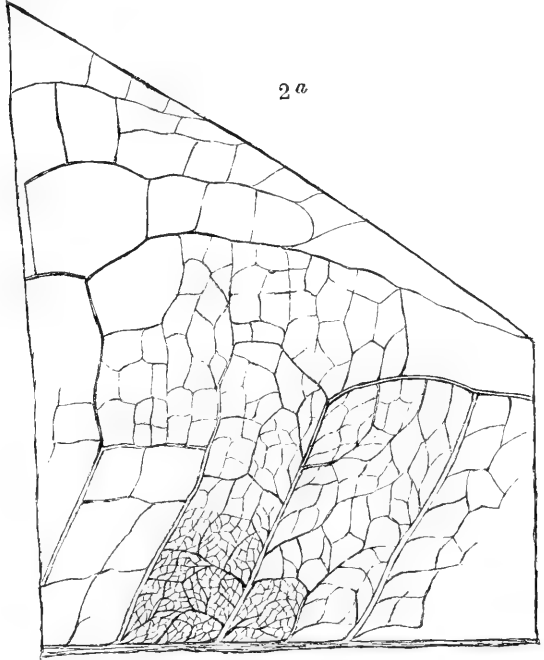
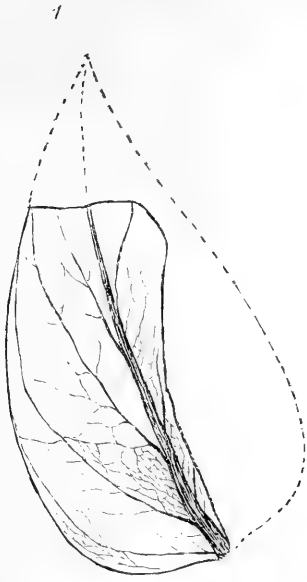


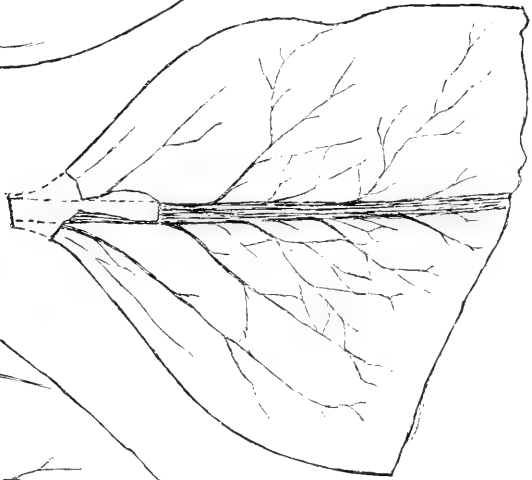
PLATE CXLII.

PLATE CXLII.

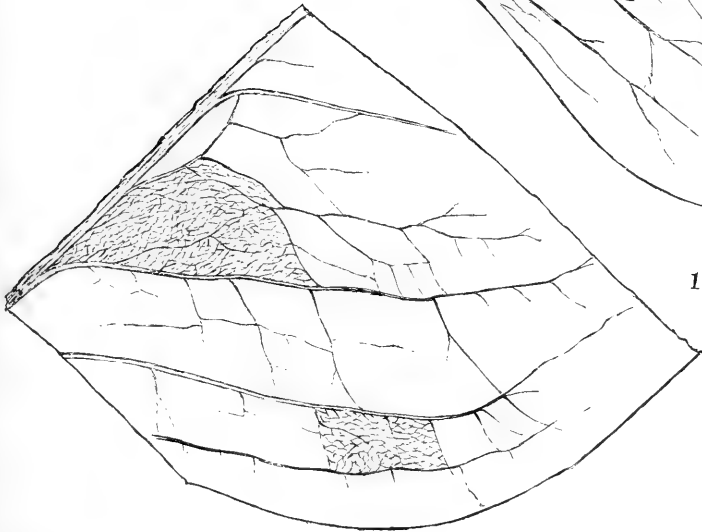
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1. Basal portion of a leaf.	285
1 ^a . Portion of 1 magnified three diameters.	285
2. Restoration of the leaf, as made out from various fragments.	285



2



1

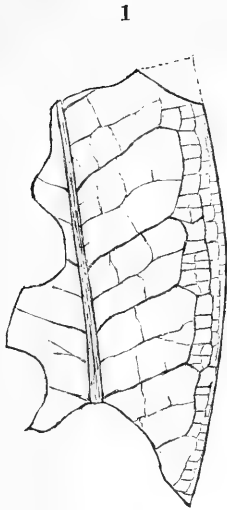


1^a

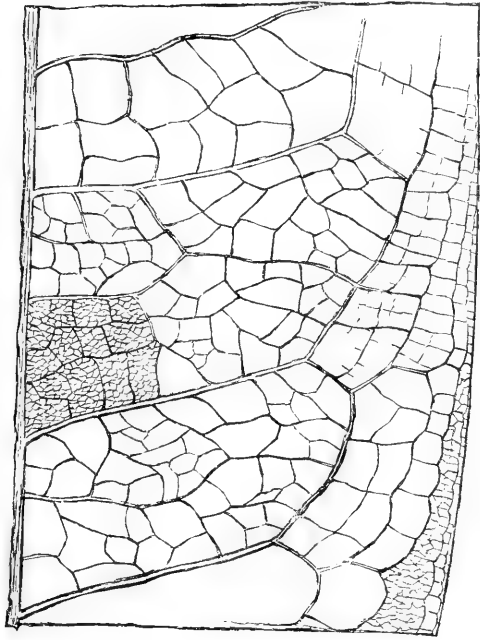
PLATE CXLIII.

PLATE CXLIII.

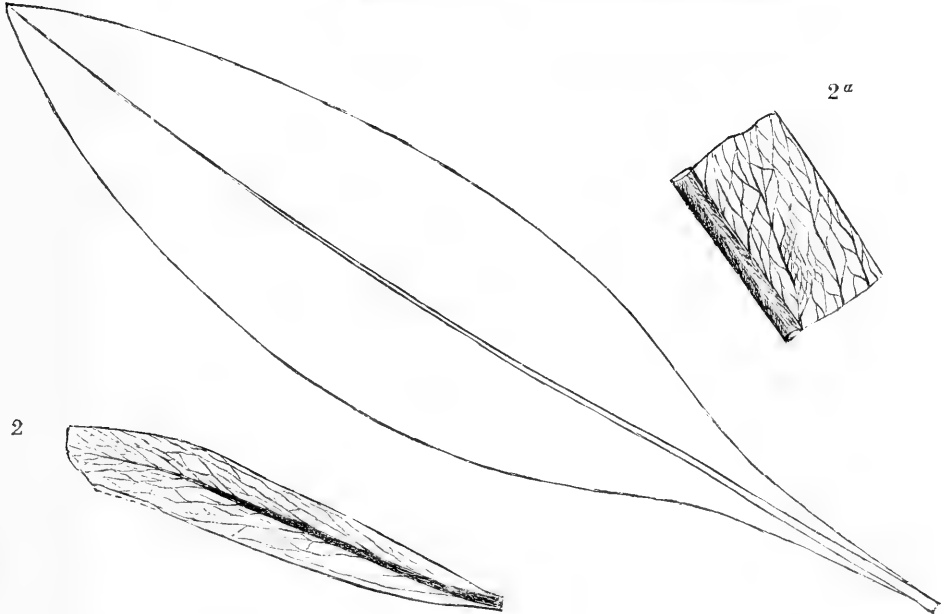
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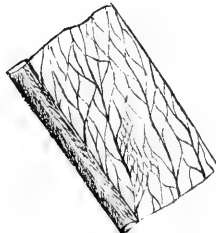
1^a



3



2^a

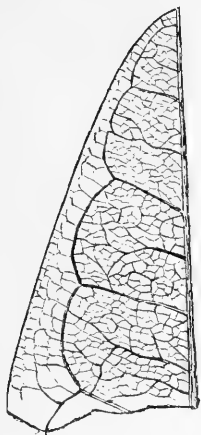


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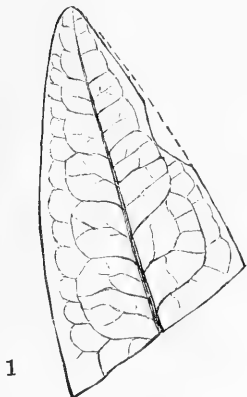
PLATE CXLIV.

PLATE CXLIV.

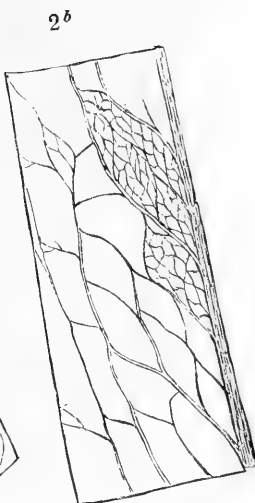
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1. Upper part of a leaf	295
1 ^a . Portion of 1 magnified three diameters	295
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FIG. 3. <i>FICOPHYLLUM CRASSINERVE</i> , sp. nov.	291
3. Upper portion of a large leaf	291



1^a



1



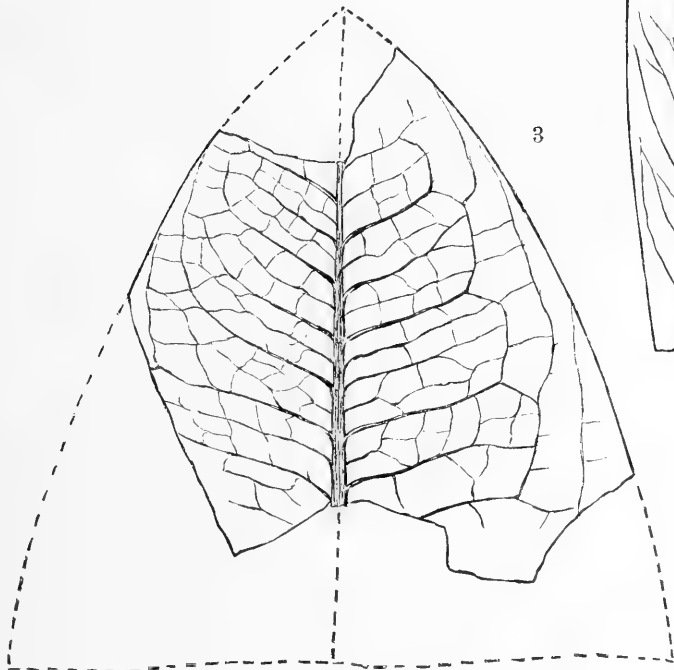
2^b



2



2^a



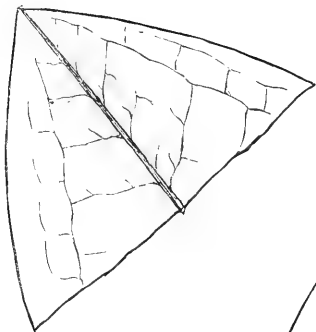
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PLATE CXLV.

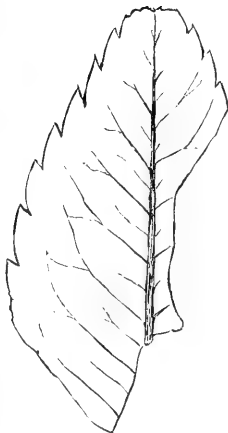
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1



2



3



4

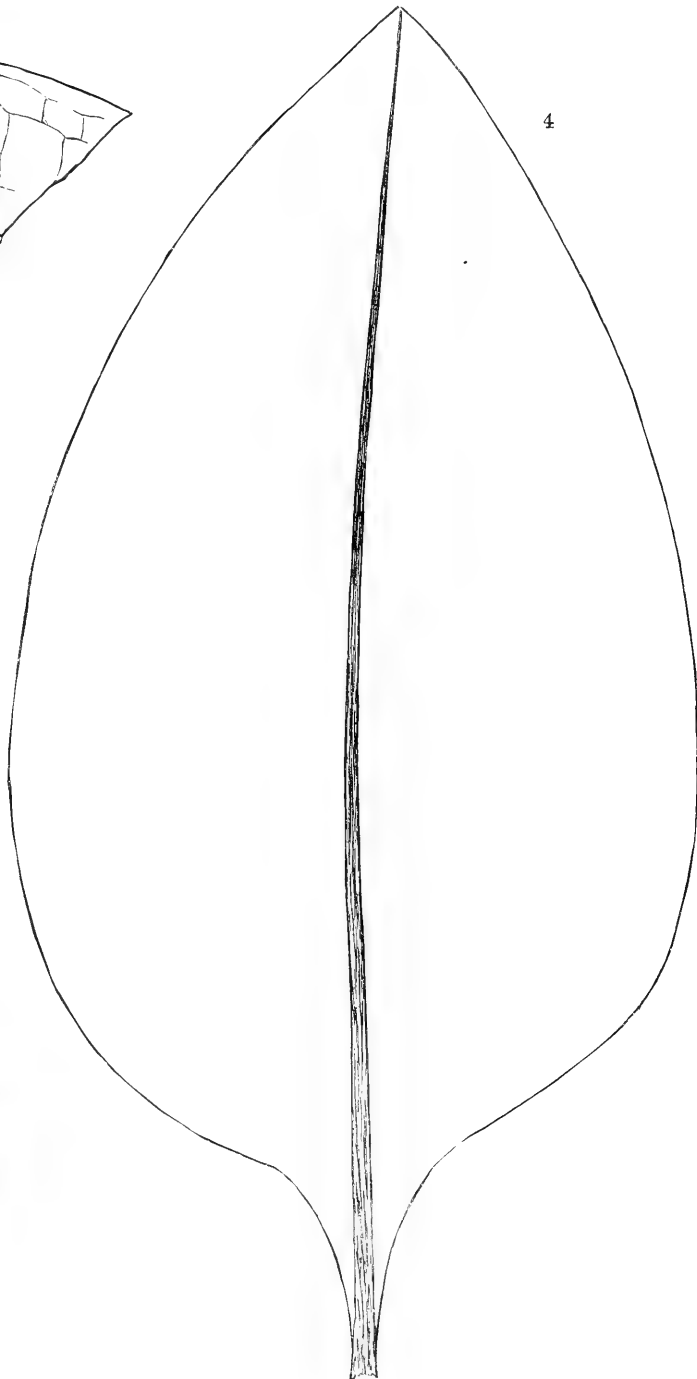


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3a. Part of 3 magnified three diameters	304
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5. Nearly entire leaf	304

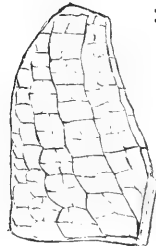
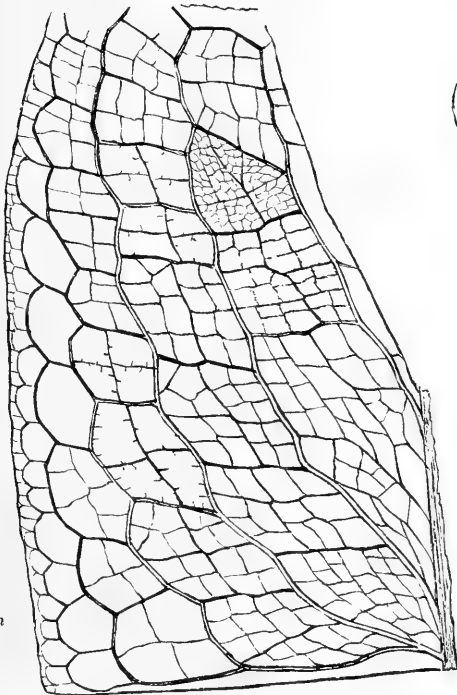
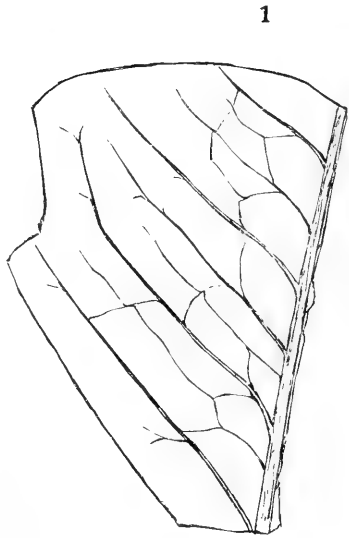
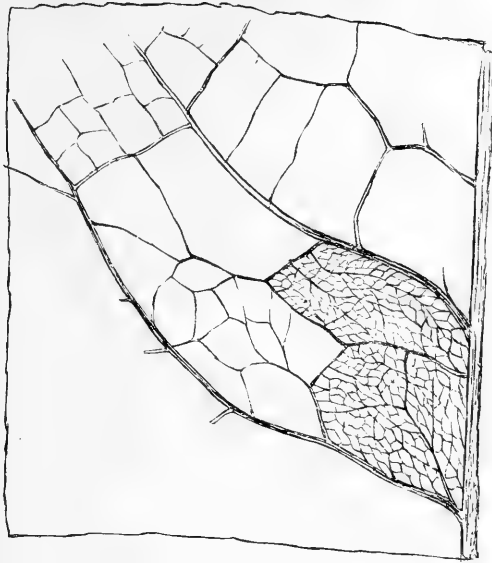


PLATE CXLVII.

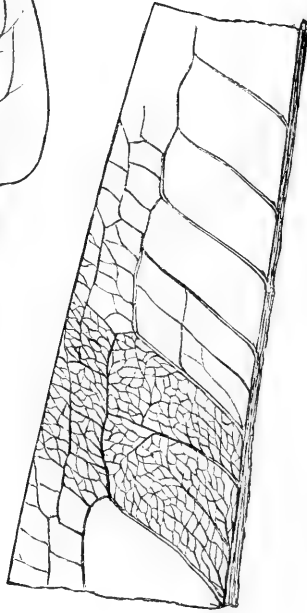
PLATE CXLVII.

	Page.
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1. Nearly entire leaf	296
FIG. 2. <i>FICOPHYLLUM TENUINERVE</i> , sp. nov.	292
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3a. Part of 3 magnified three diameters	297
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4. Fragment of a very large leaf, natural size.	291

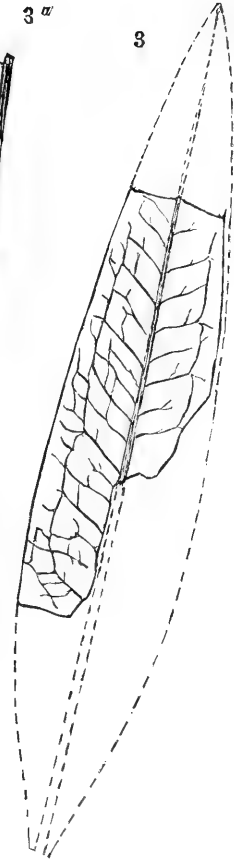
1



3^a



3



2



4

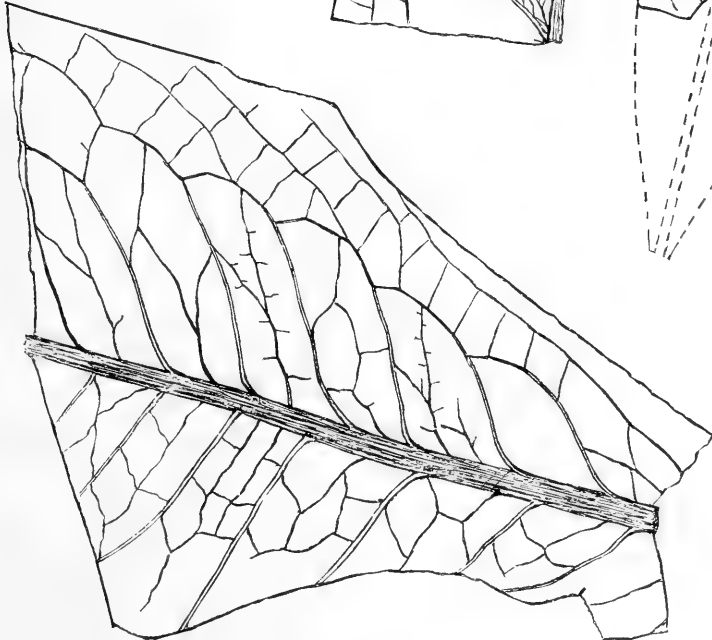


PLATE CXLVIII.

PLATE CXLVIII.

	Page.
FIGS. 1, 2, 4. <i>FICOPHYLLUM CRASSINERVE</i> , sp. nov.	291
1. Middle part of a leaf	291
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3. Fragment of the middle portion of a leaf	295
5. Summit of a small leaf	295

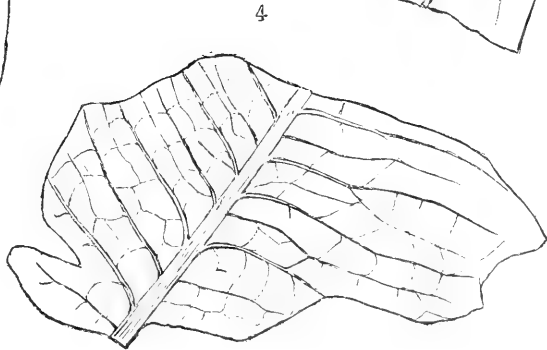
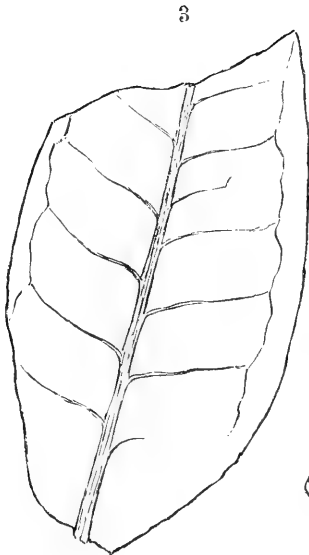
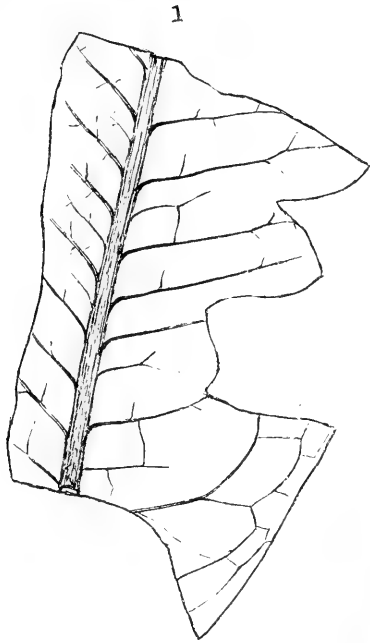


PLATE CXLIX.

PLATE CXLIX.

		Page.
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FIG.	9. <i>FICOPHYLLUM SERRATUM</i> , sp. nov.	294
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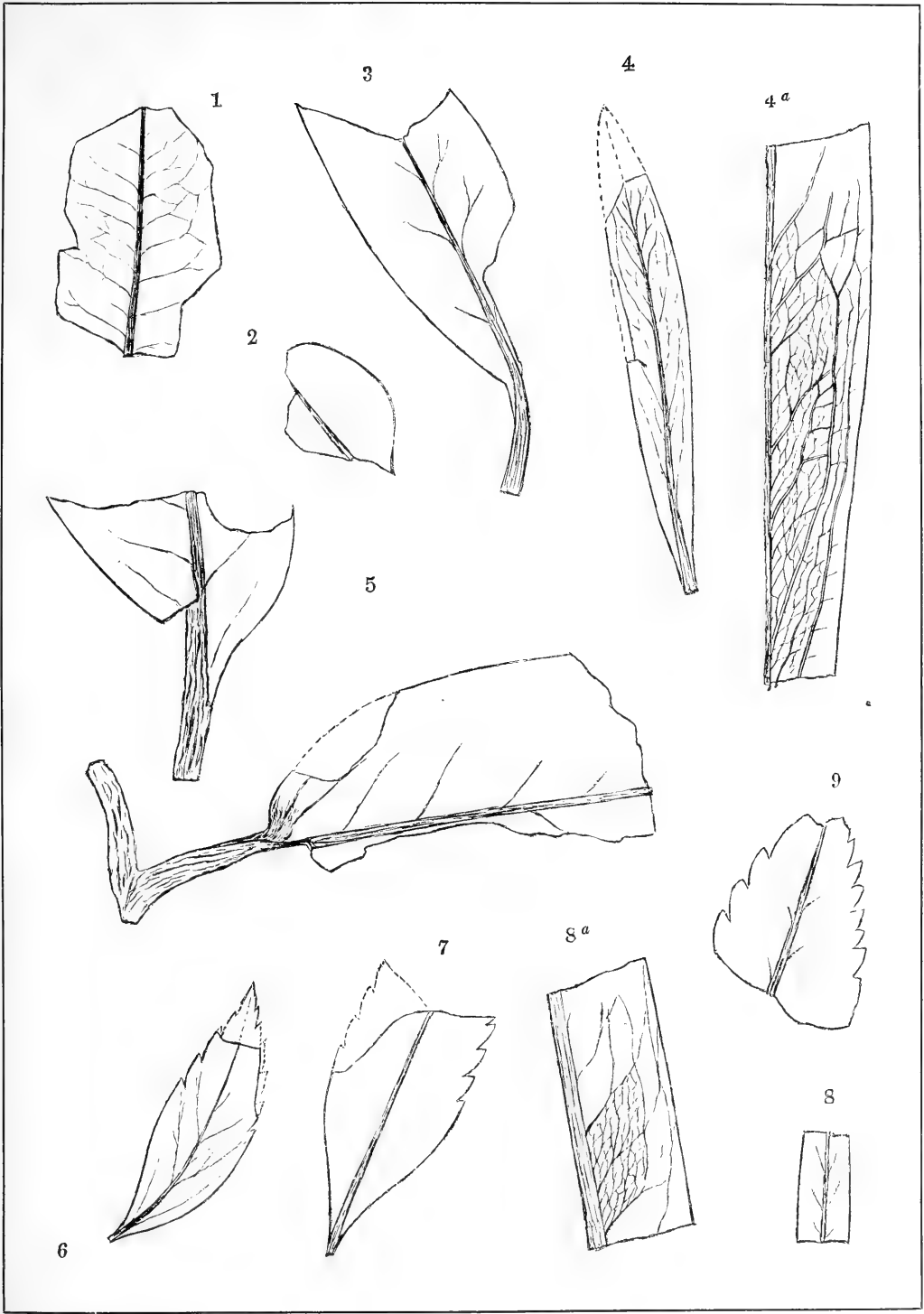


PLATE CL.

PLATE CL.

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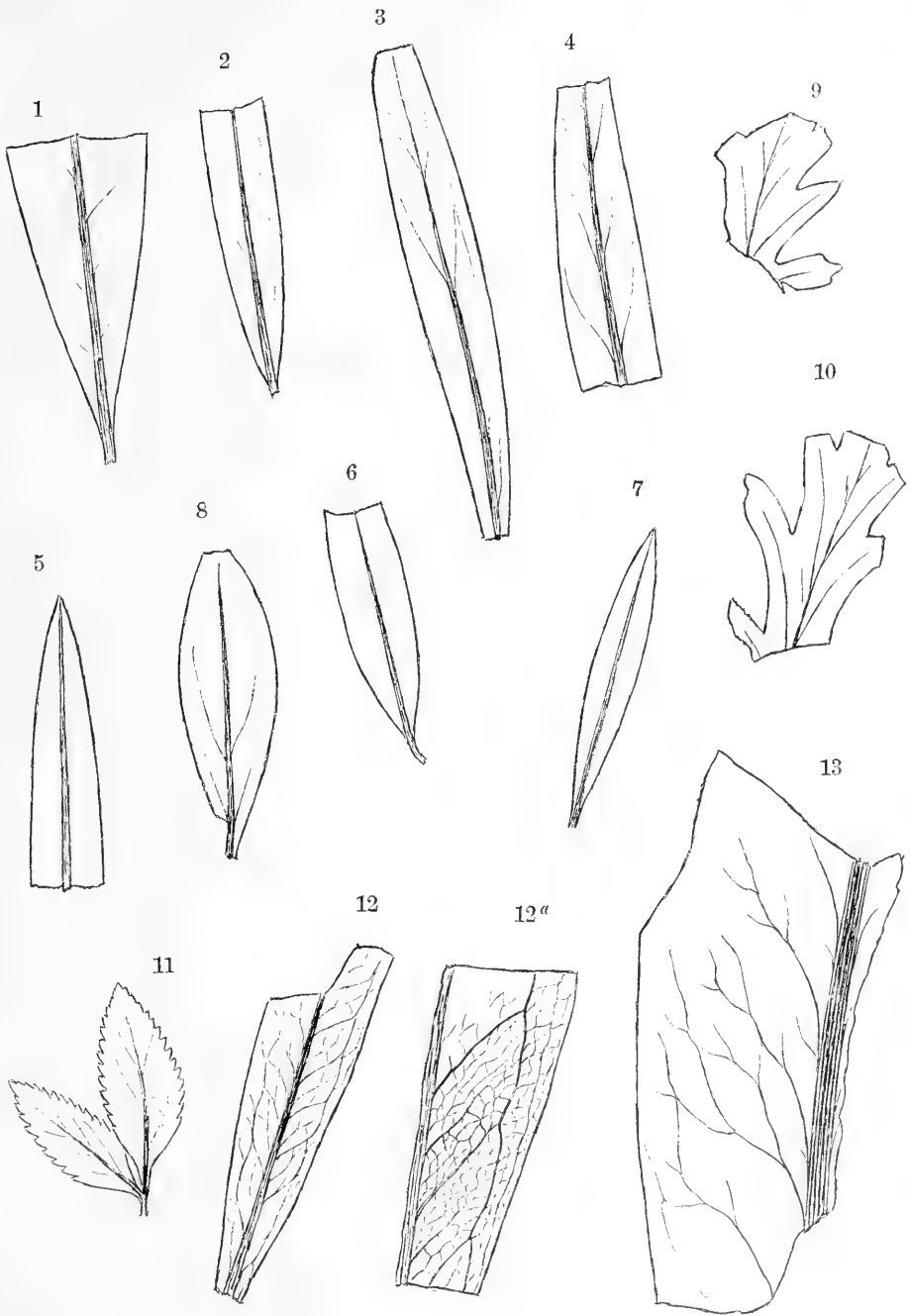
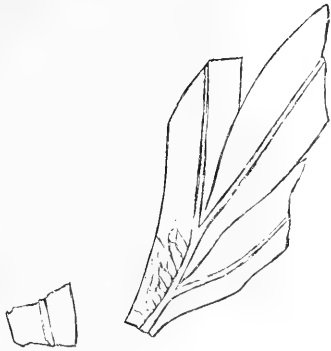


PLATE CLI.

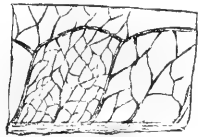
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1 ^a . Portion of 1 magnified to show nervation.....	298
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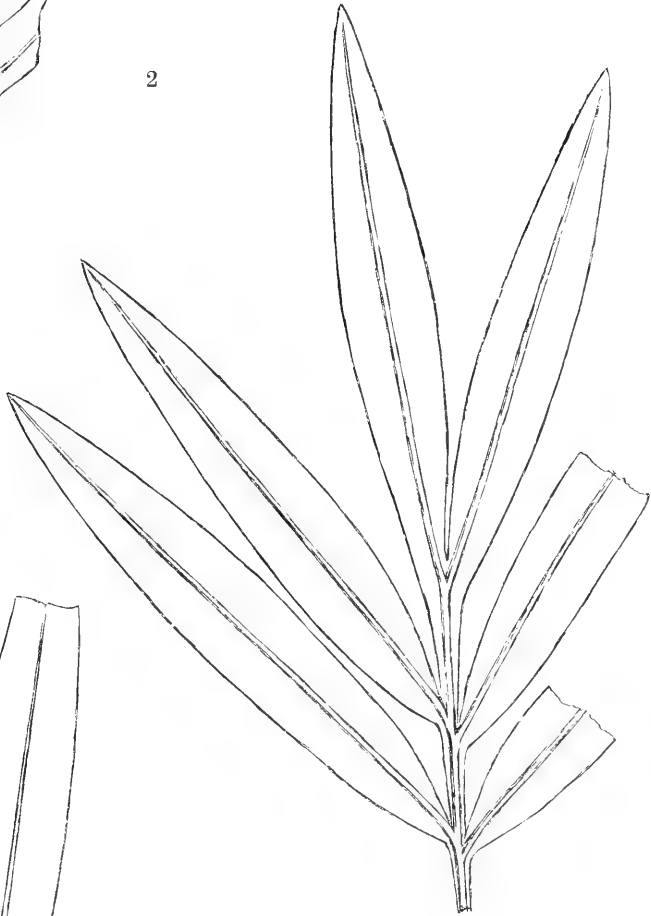
1



1^a



2



3



4

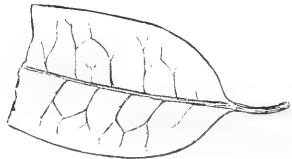


PLATE CLII.

PLATE CLII.

	Page.
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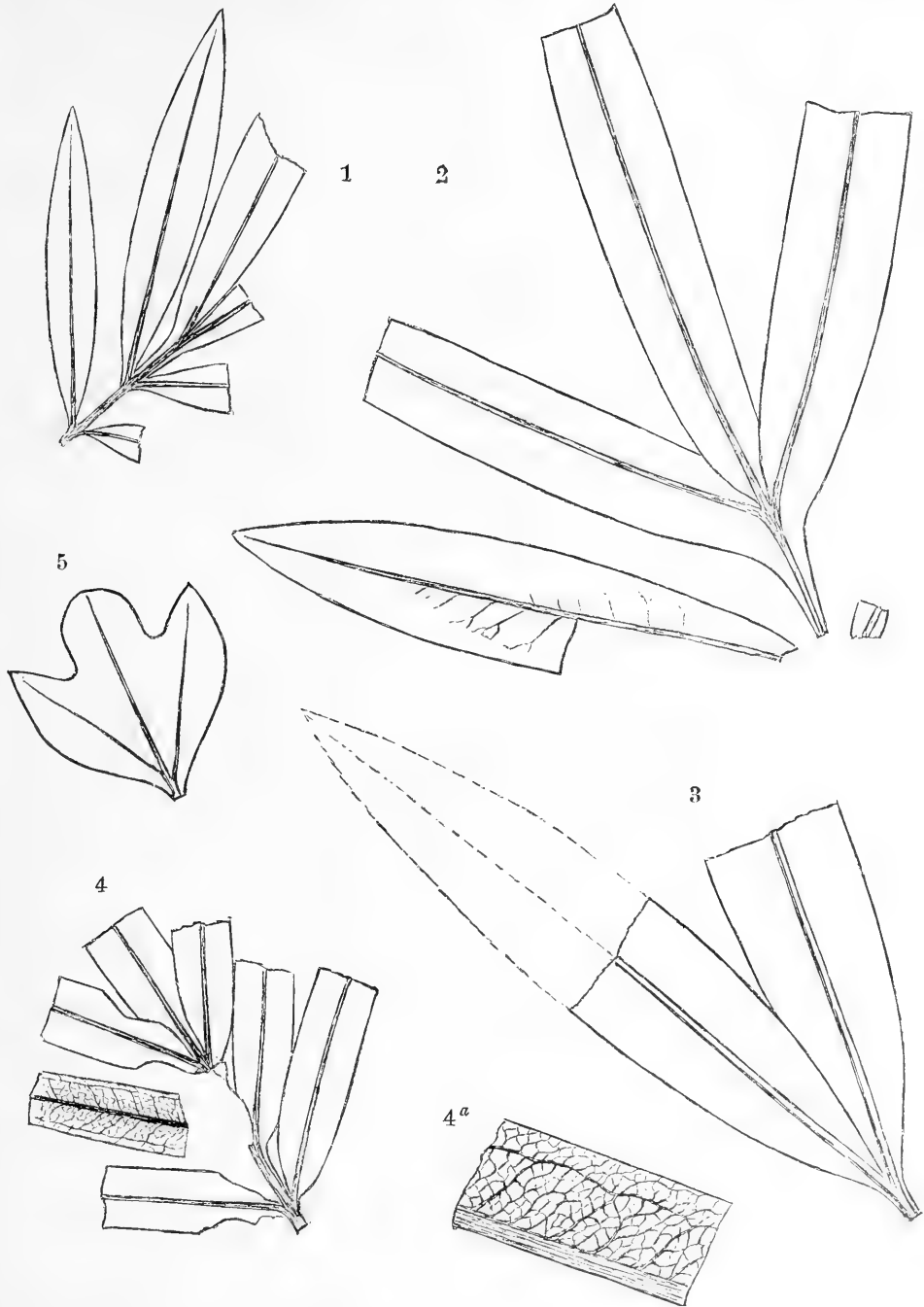
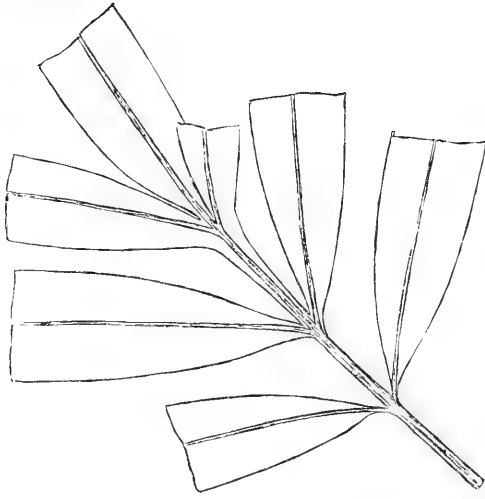


PLATE CLIII.

PLATE CLIII.

	Page.
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1a. Portion of the base of a leaflet magnified three diameters	301
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3. Fragment of a compound leaf	298
FIG. 4. <i>SAPINDOPSIS BREVIFOLIA</i> , sp. nov.	300
4. Summit of a compound leaf	300

1



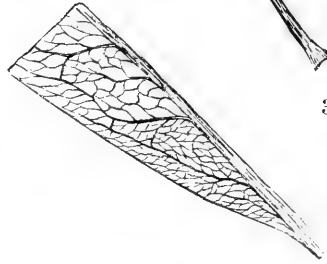
1^b



3



2



1^a

4



PLATE CLIV.

PLATE CLIV.

	Page.
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1 ^a . Portion of a leaflet magnified three diameters	297
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6. Upper part of a compound leaf.	300

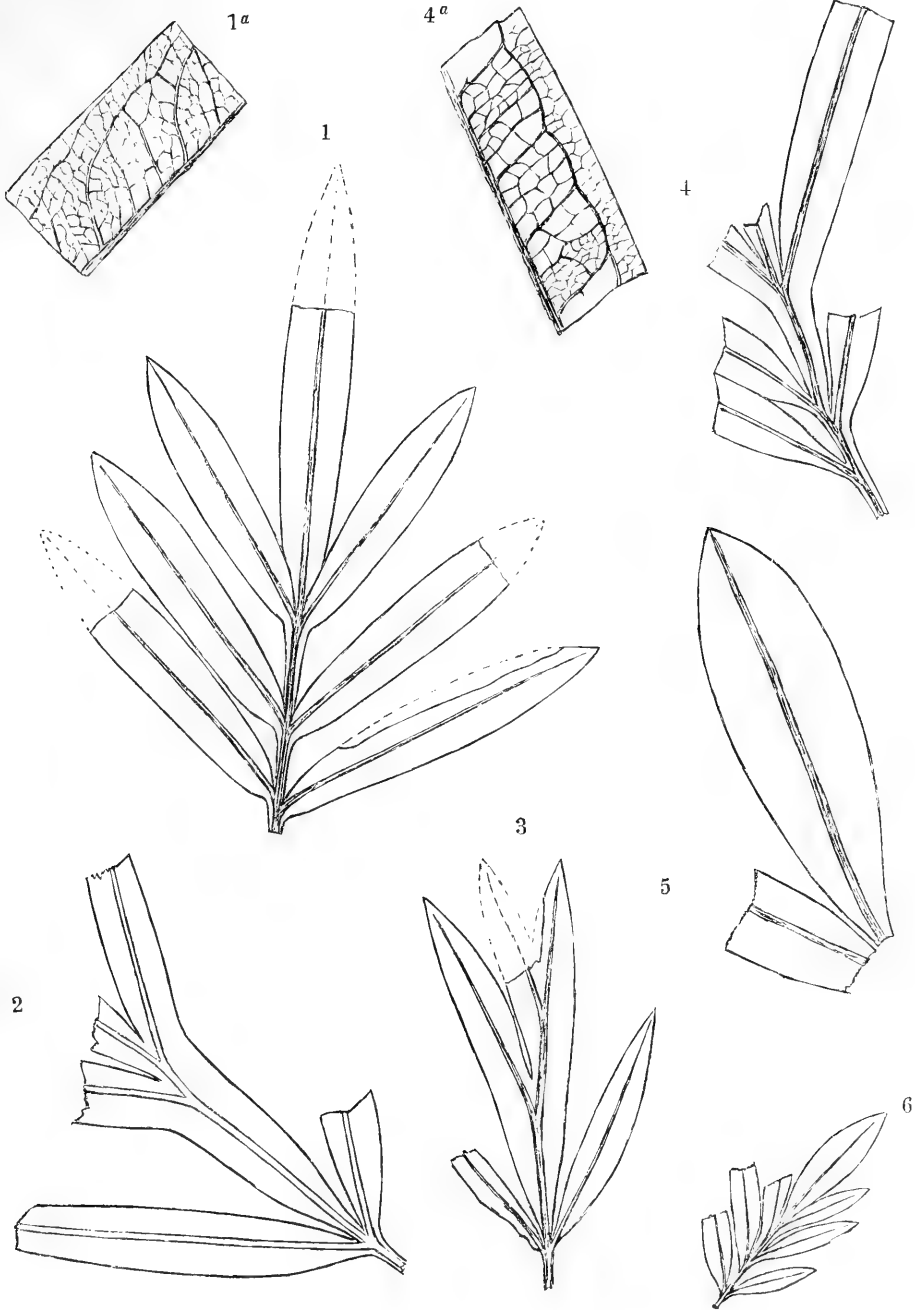


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9. Fragment of a leaf	311
9 ^a . Portion of 9 magnified three diameters	311

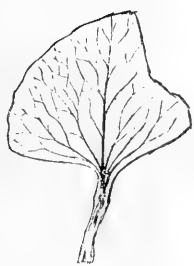
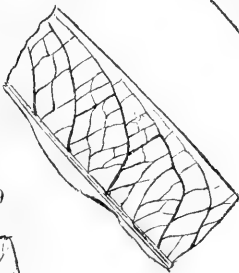
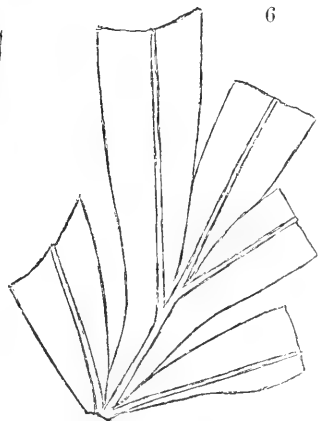
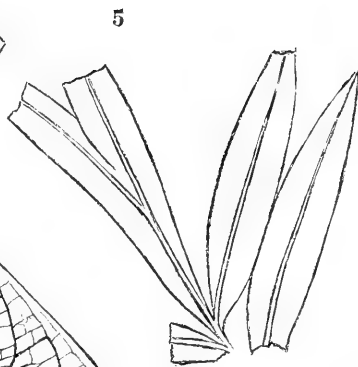
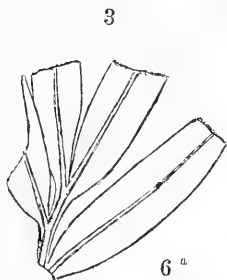
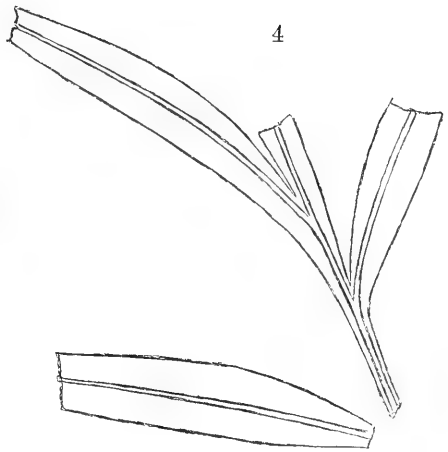




PLATE CLVI.

PLATE CLVI.

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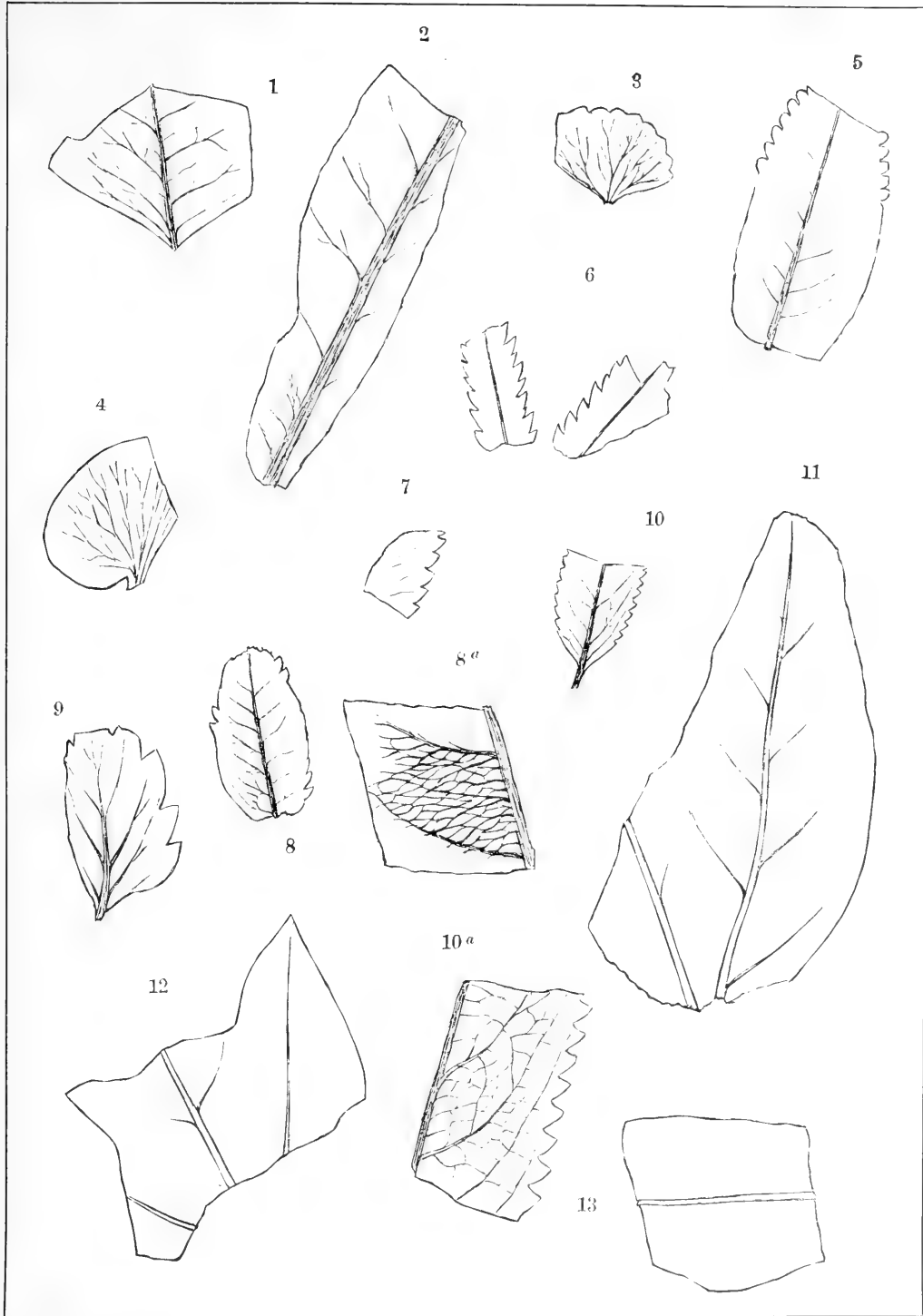


PLATE CLVII.

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4. Tip of a leaf	291

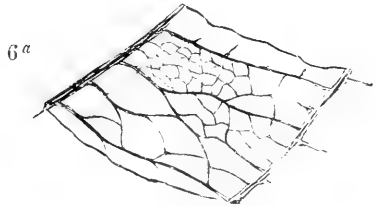
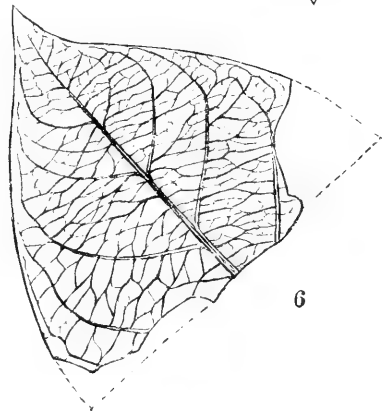
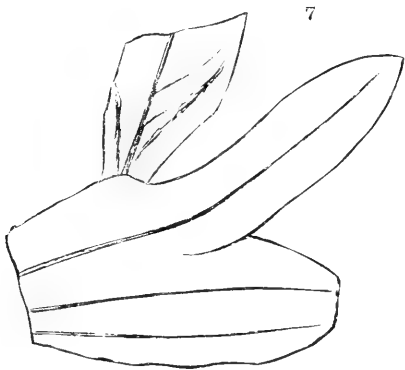
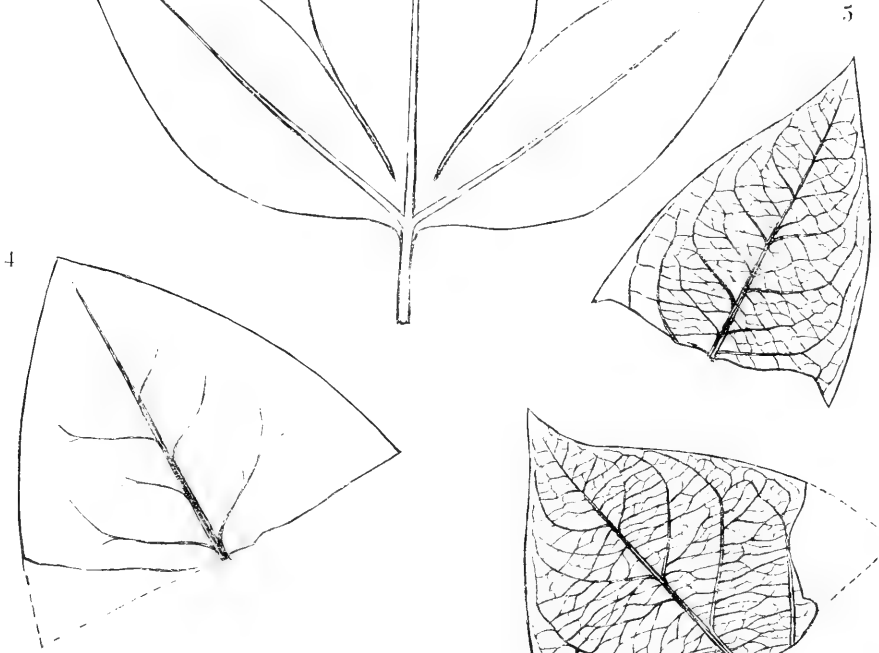
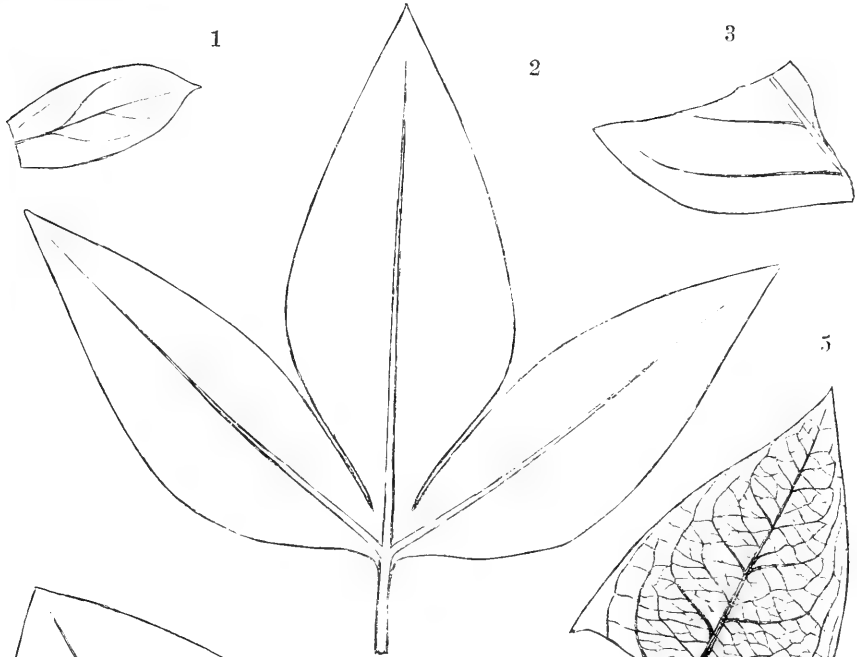


PLATE CLVIII.

PLATE CLVIII.

	Page.
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1 ^a . Portion of 1 magnified three diameters.	313
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FIG. 8. <i>CELASTROPHYLLUM BROOKENSE</i> , sp. nov.	305
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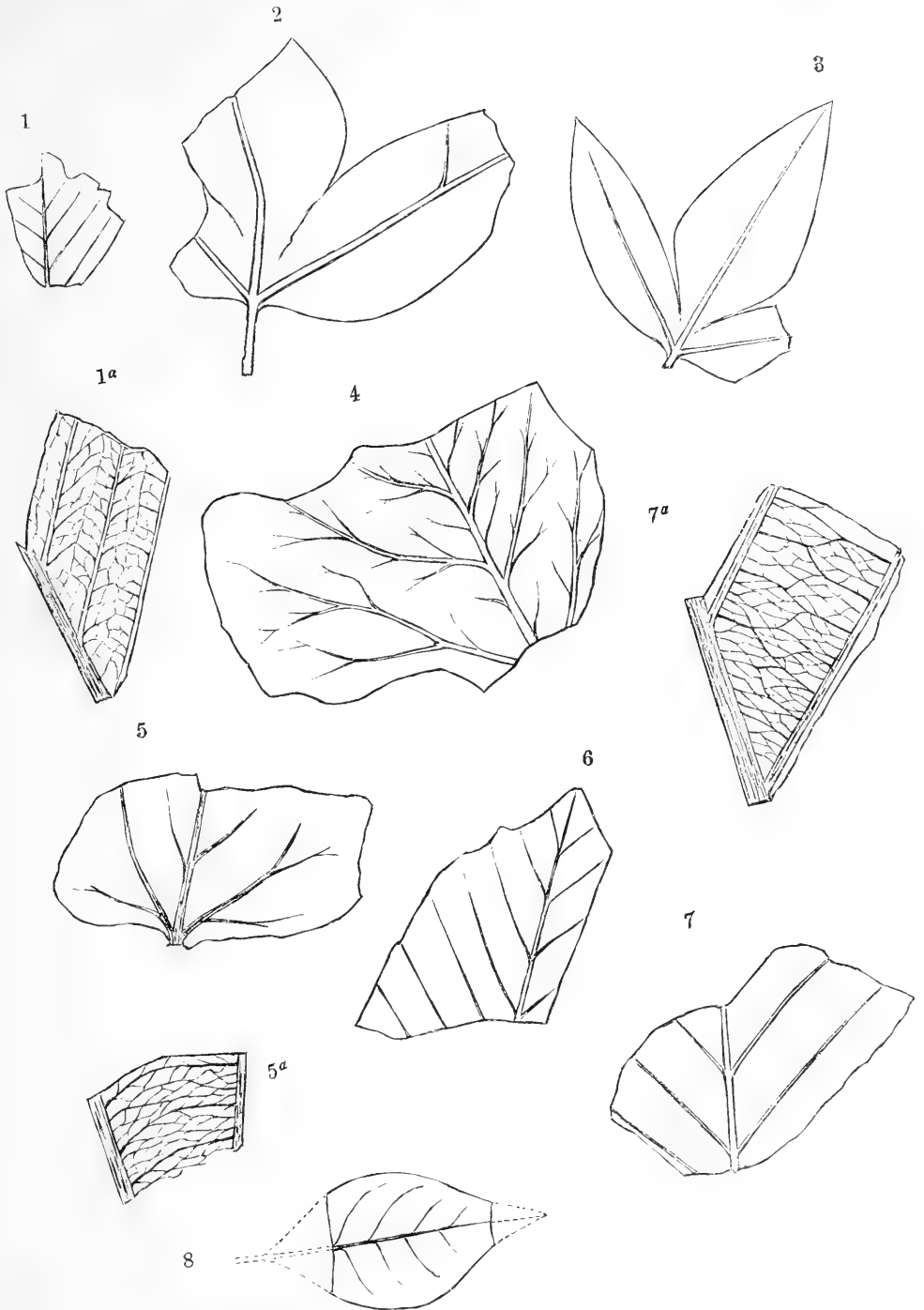


PLATE CLIX.

PLATE CLIX.

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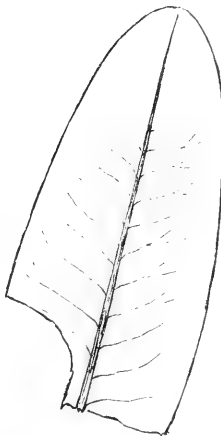
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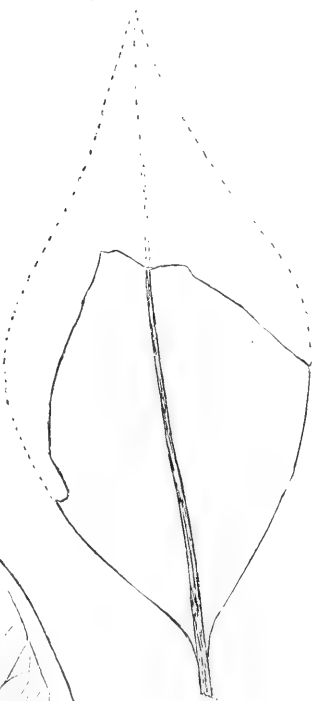
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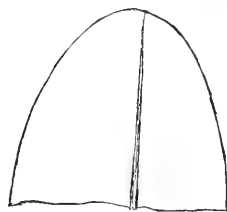
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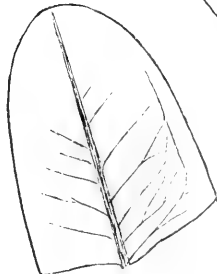
7



5



6



8



4

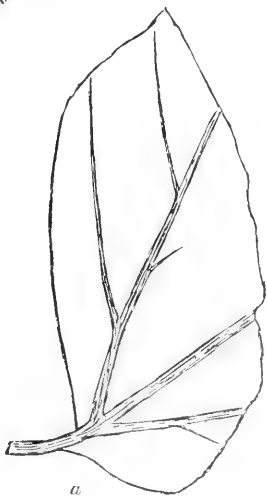


a



9

10

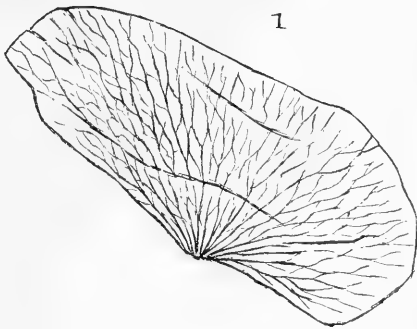


a

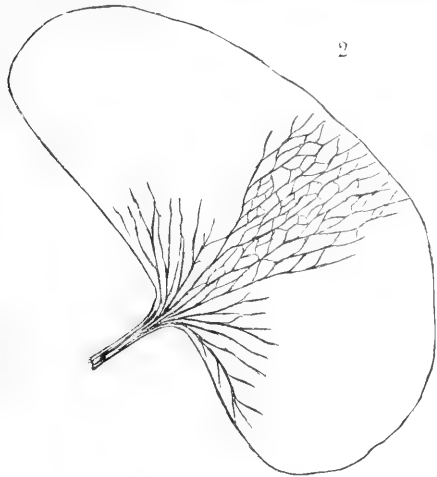
PLATE CLX.

PLATE CLX.

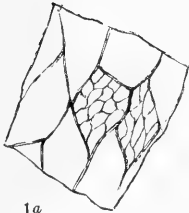
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4. Portion of leaf enlarged three diameters	322
5. Small fragment showing a primary nerve of large size.....	322
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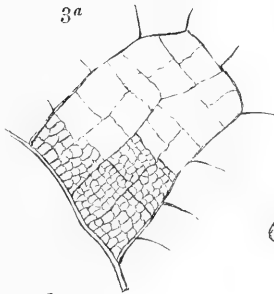
1



2

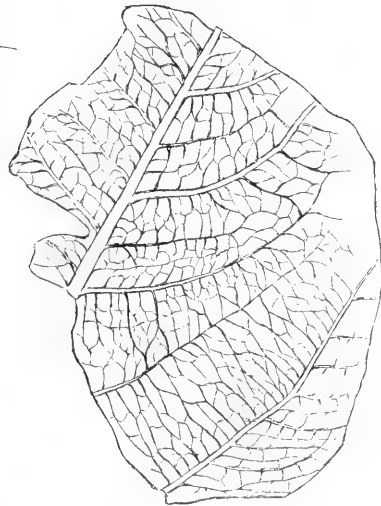


1a



3a

4



3b

6

5

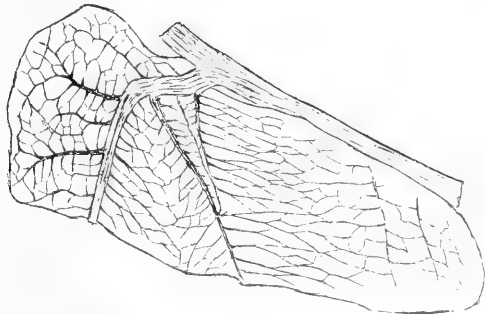
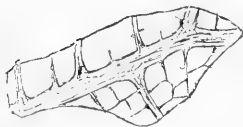
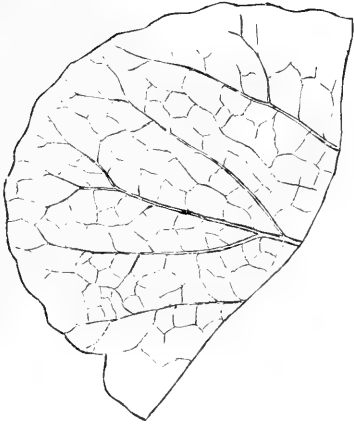


PLATE CLXI.

PLATE CLXI.

	Page.
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1. Fragment of a leaf showing mainly the basal portion	321
1 ^a . Portion of 1 magnified three diameters	321
2. Summit of a smaller leaf	321

2



1

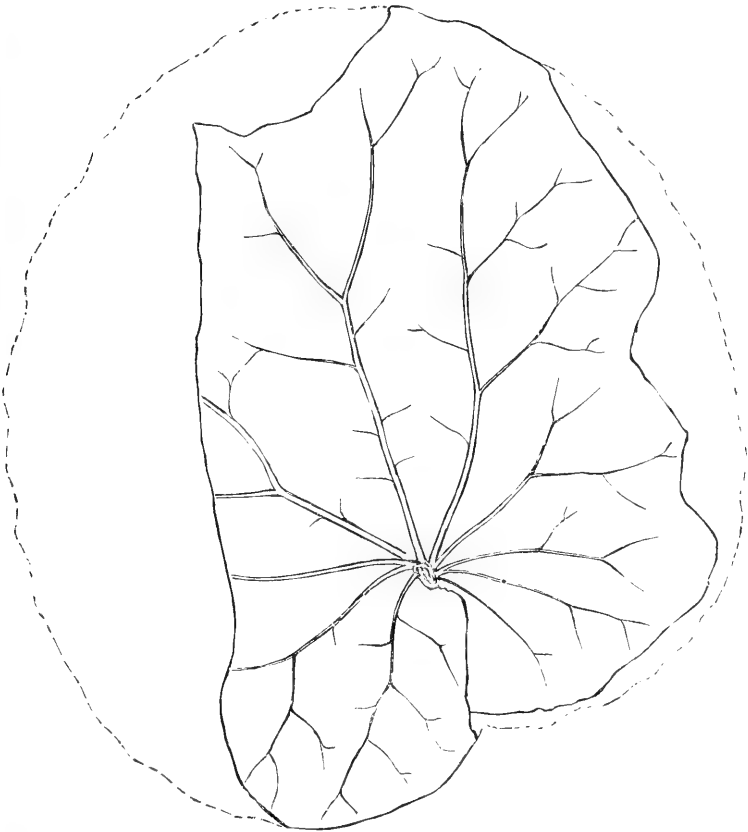
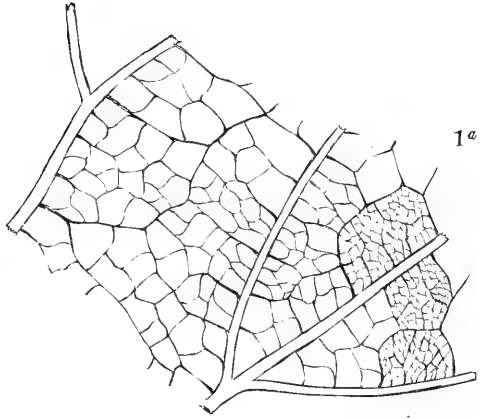
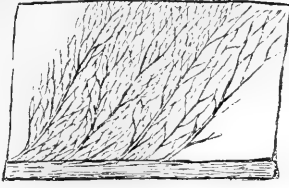


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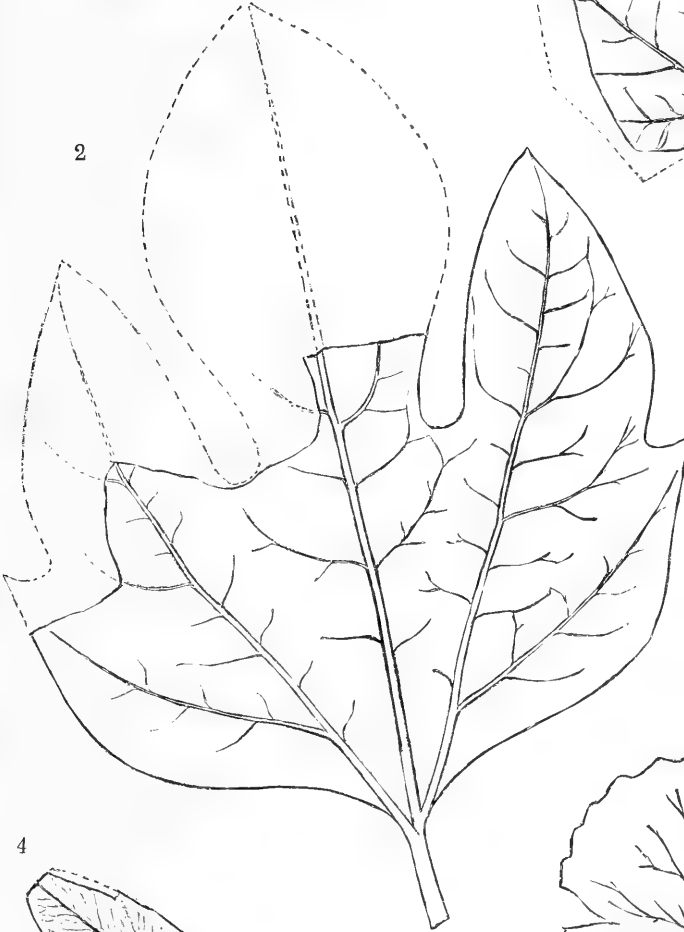
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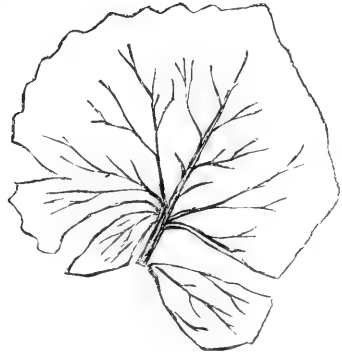
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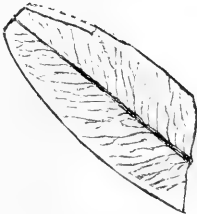
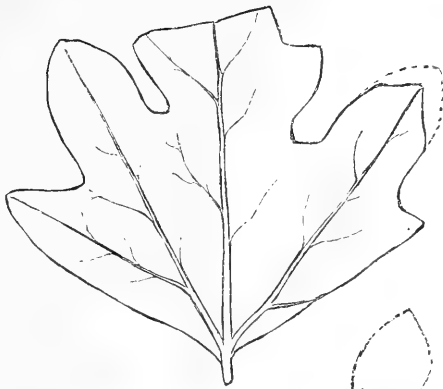


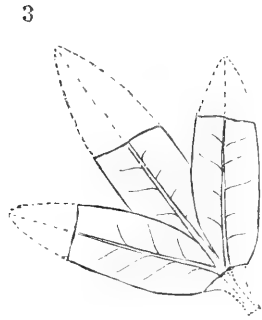
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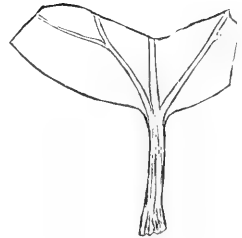
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7

7^a

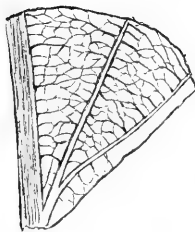


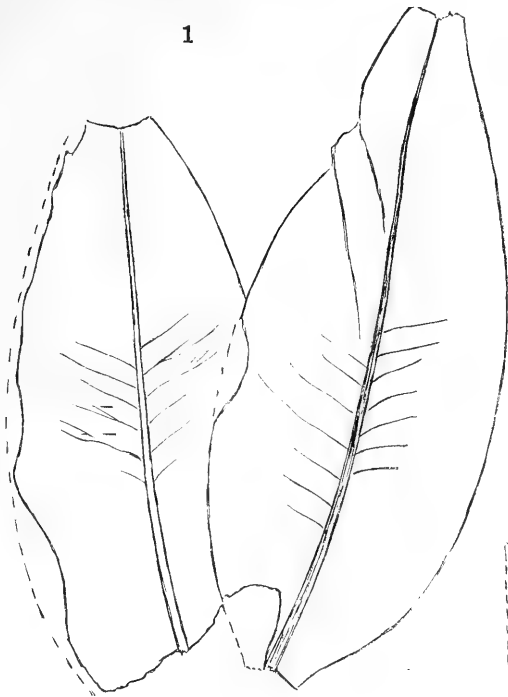
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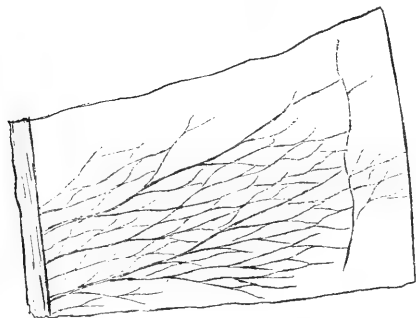
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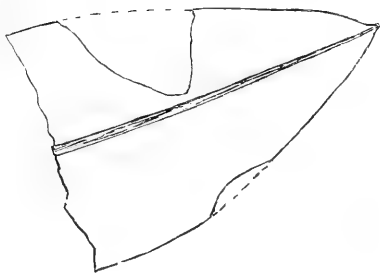
4



1^a



2



5



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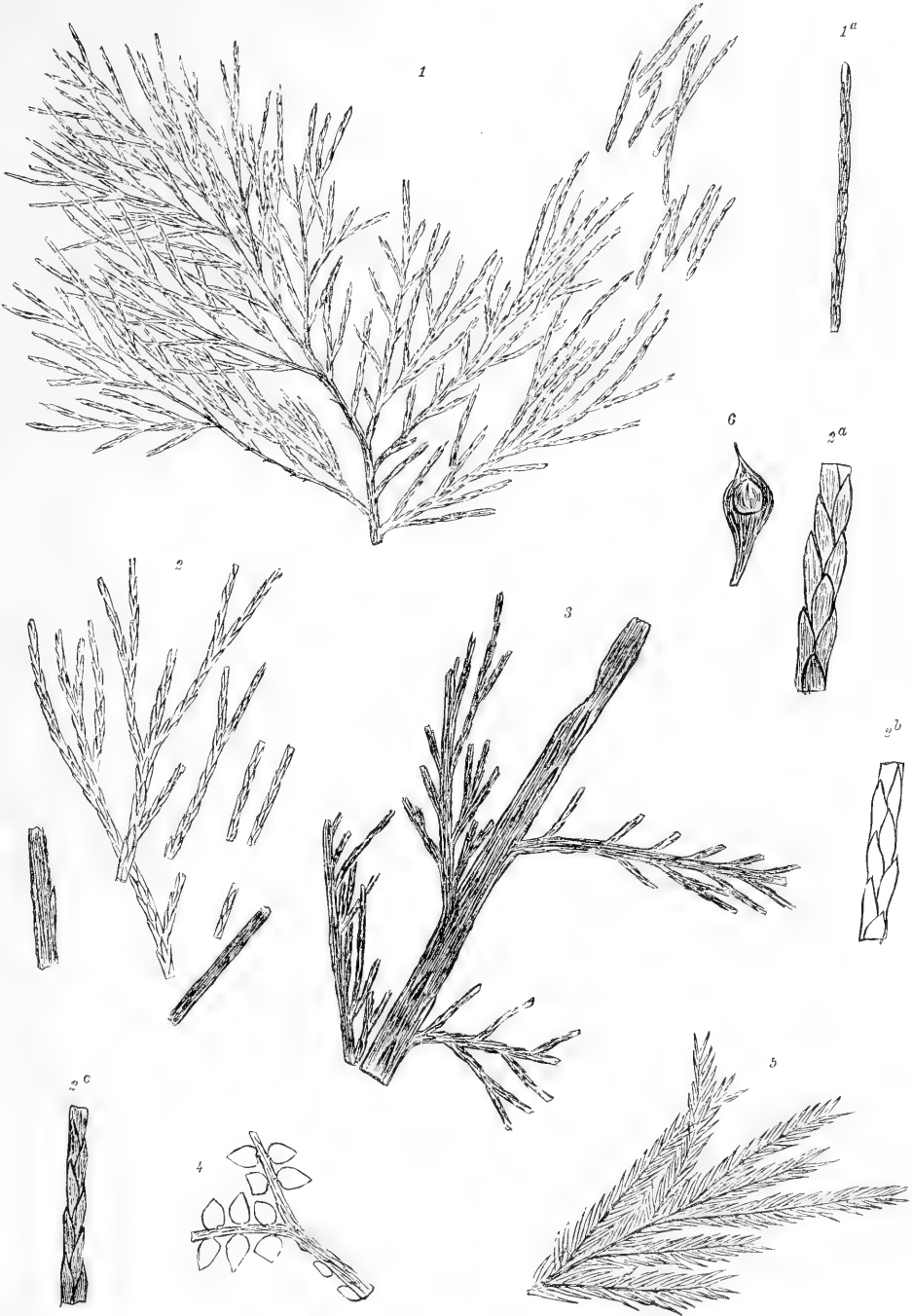


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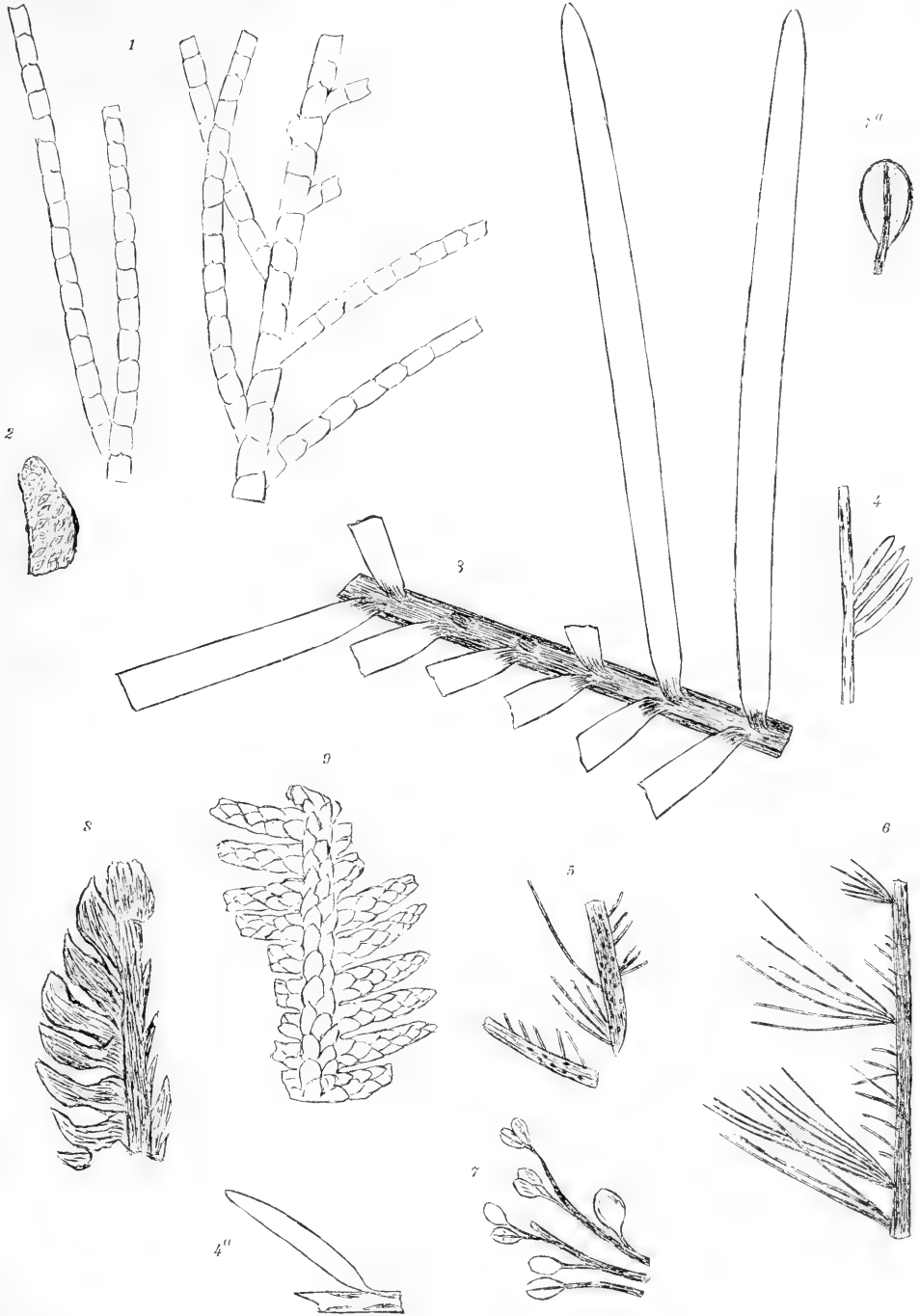


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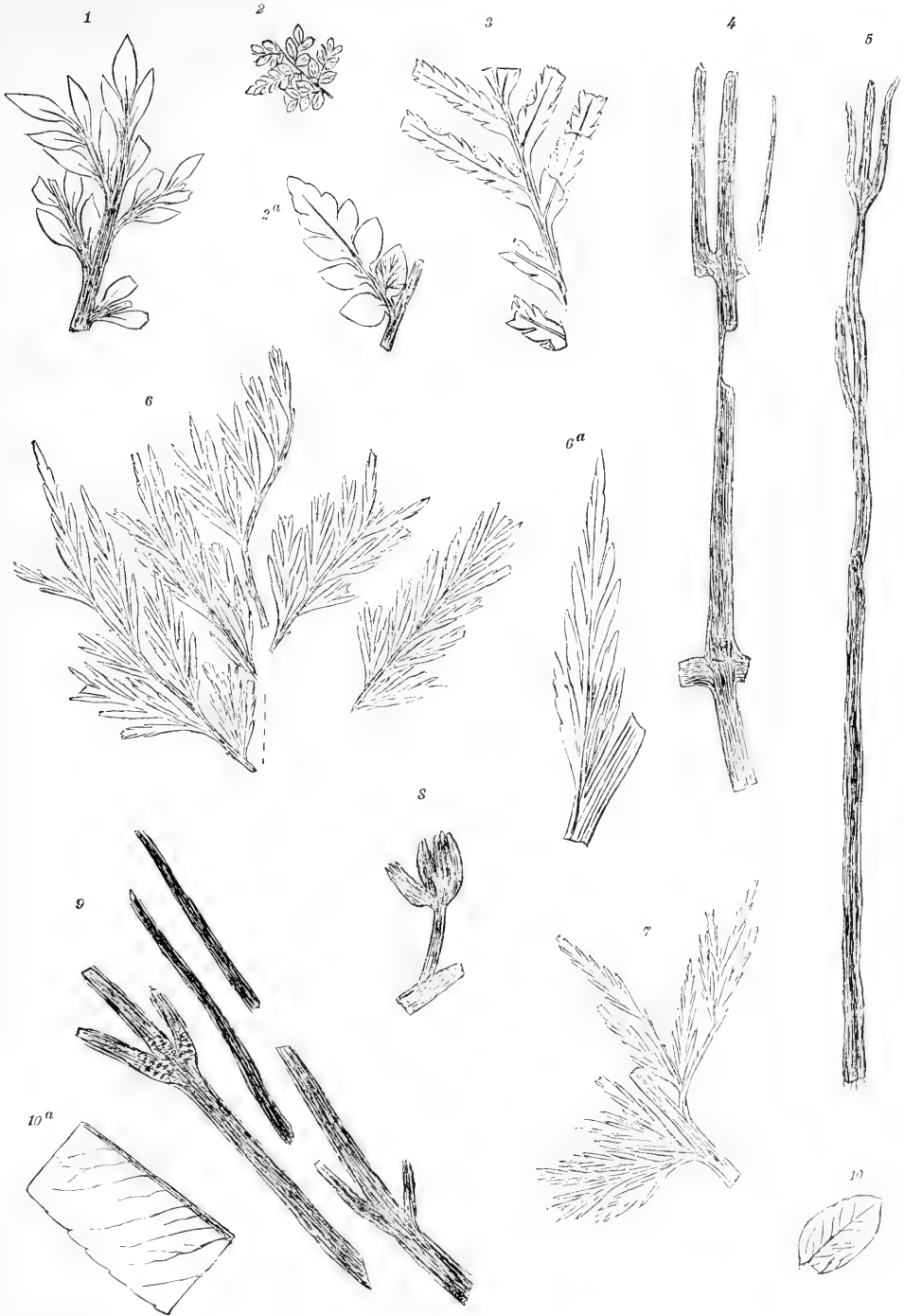


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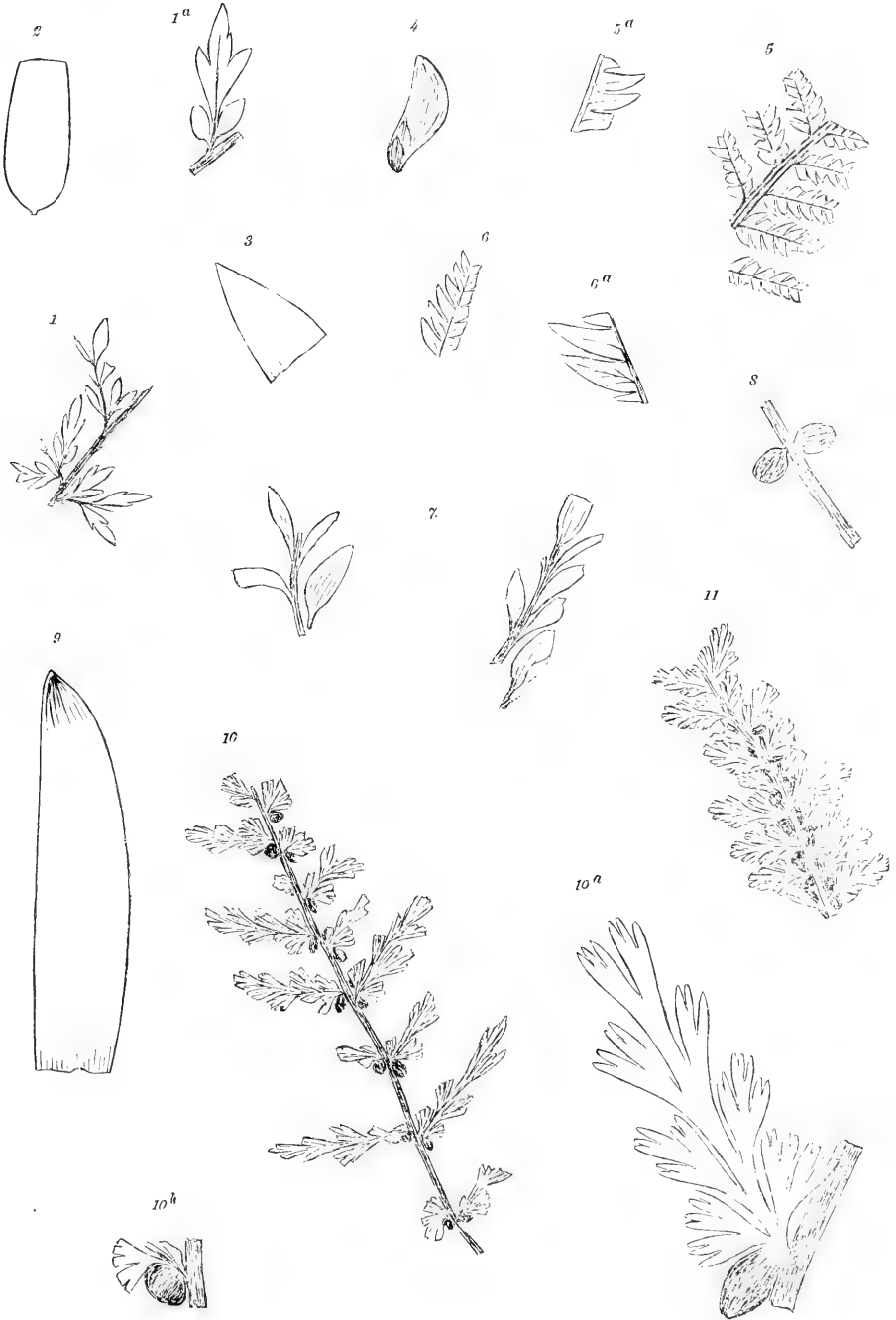


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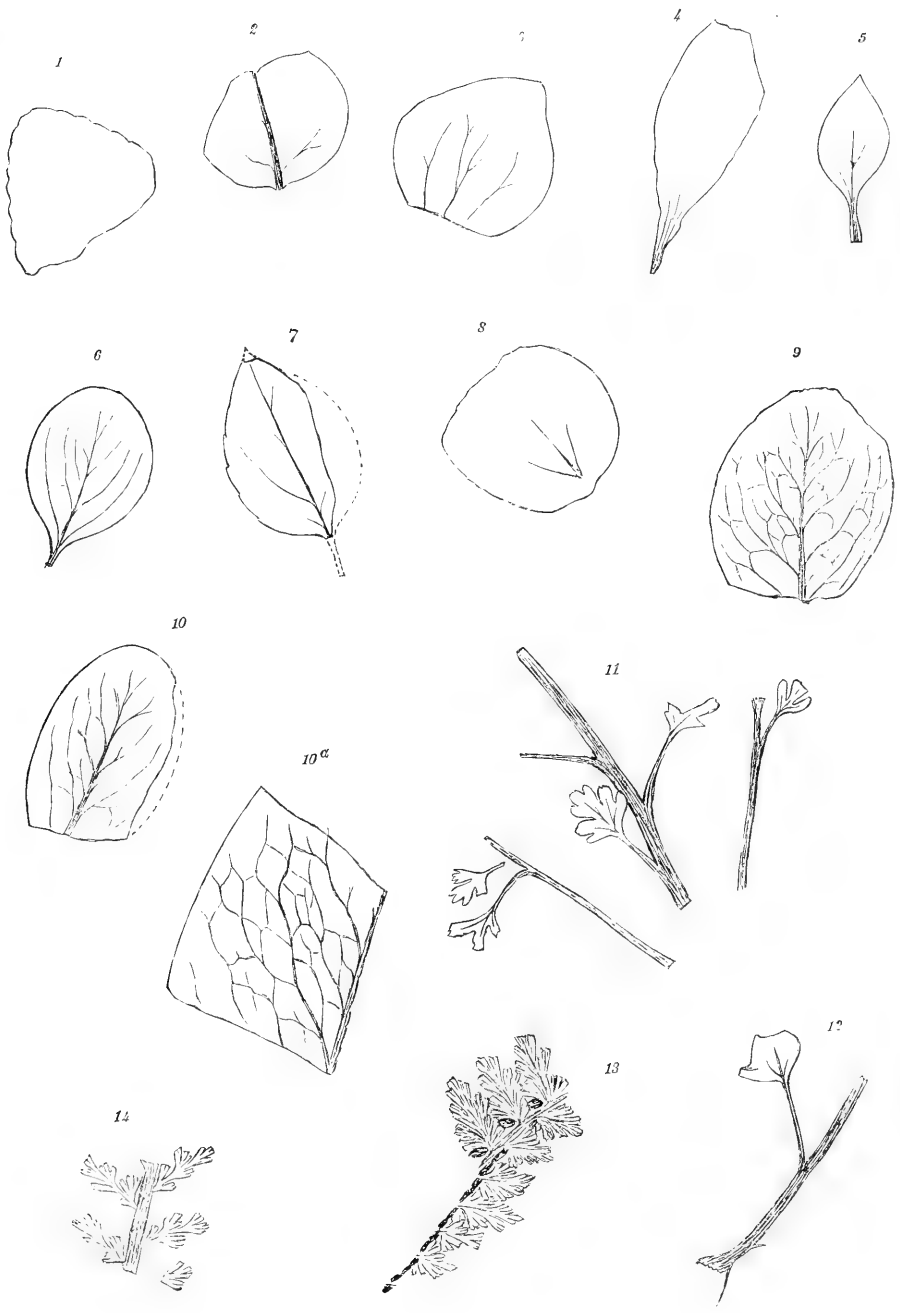




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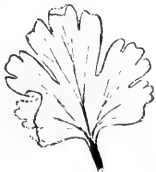
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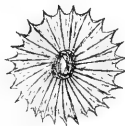
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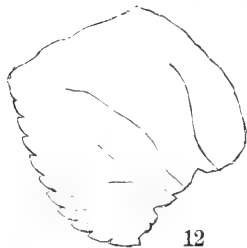
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11^a



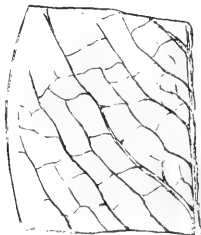
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12



13



13^a



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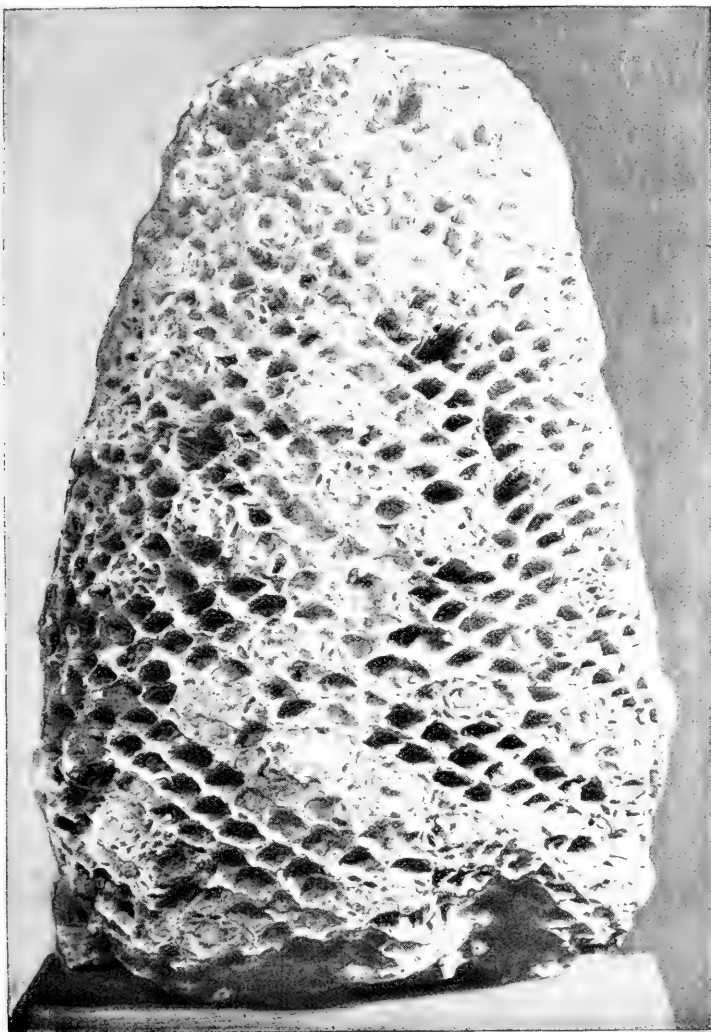


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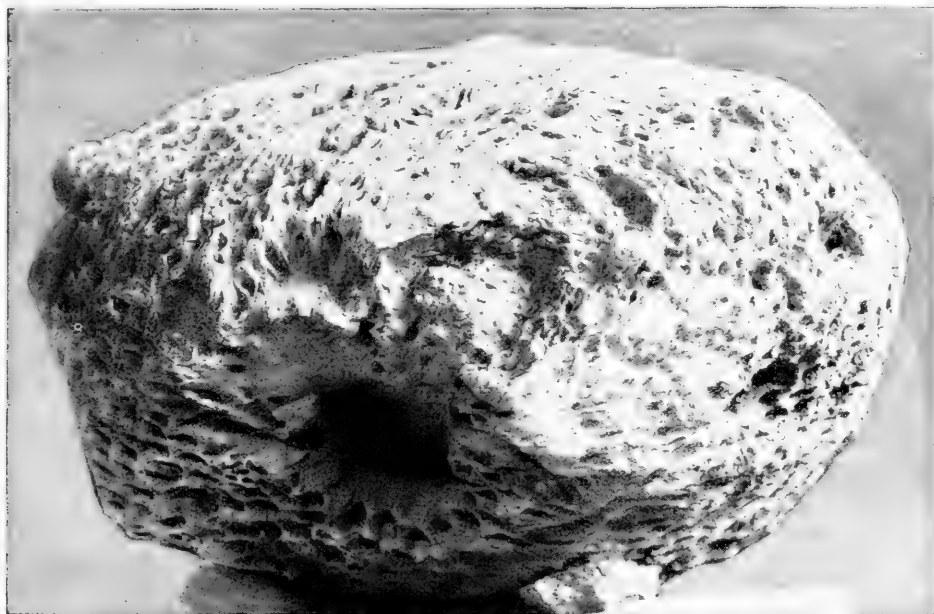


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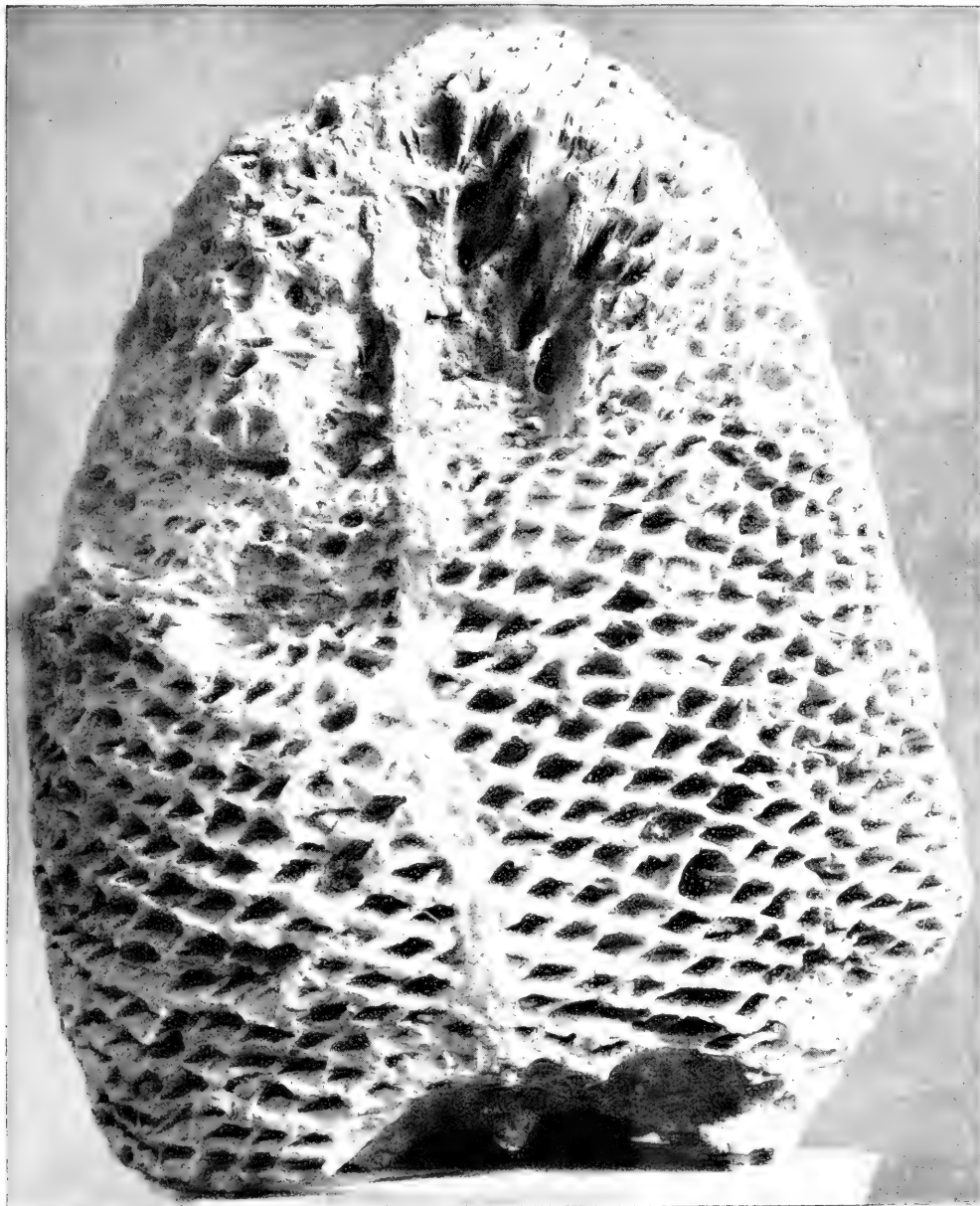


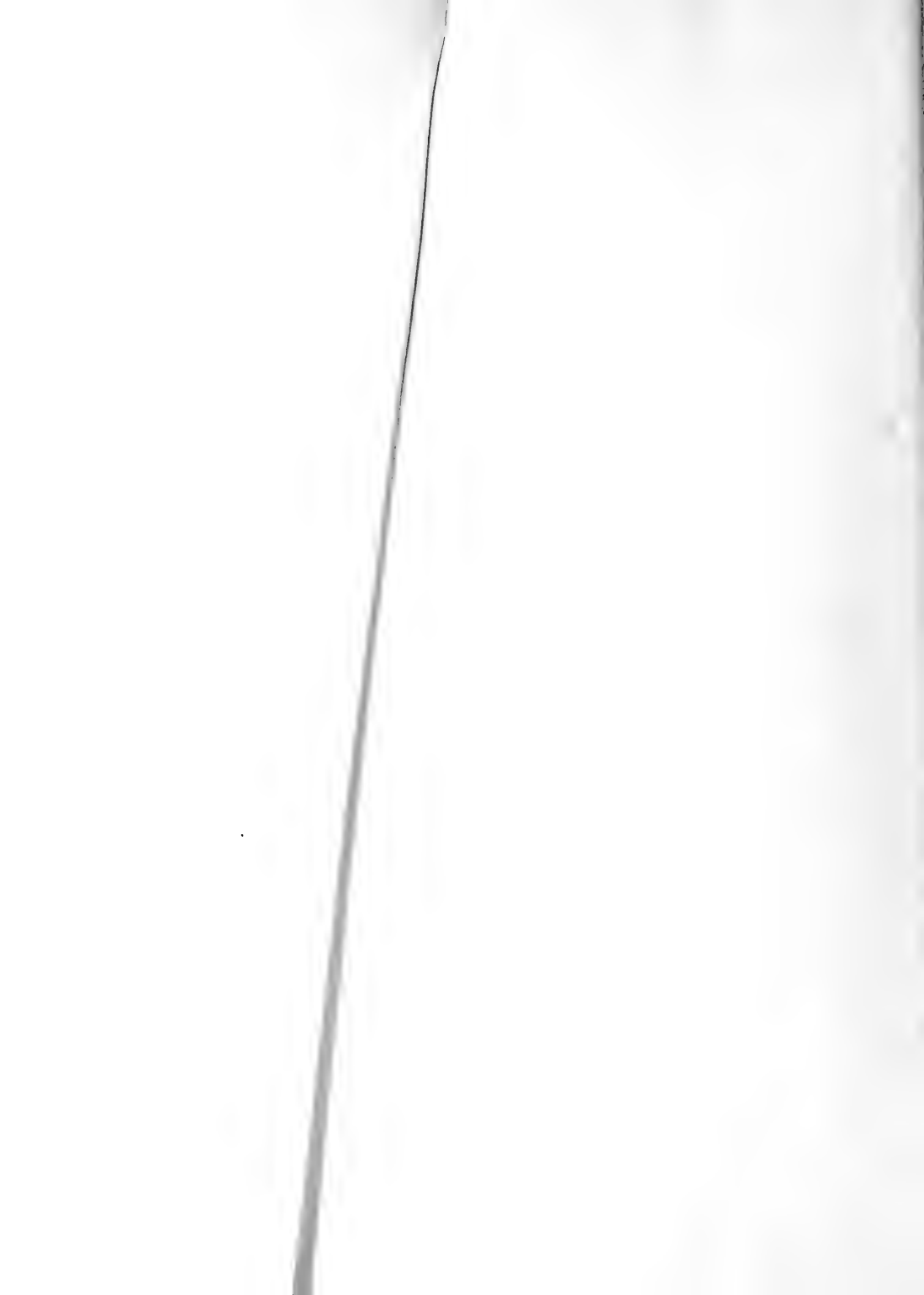


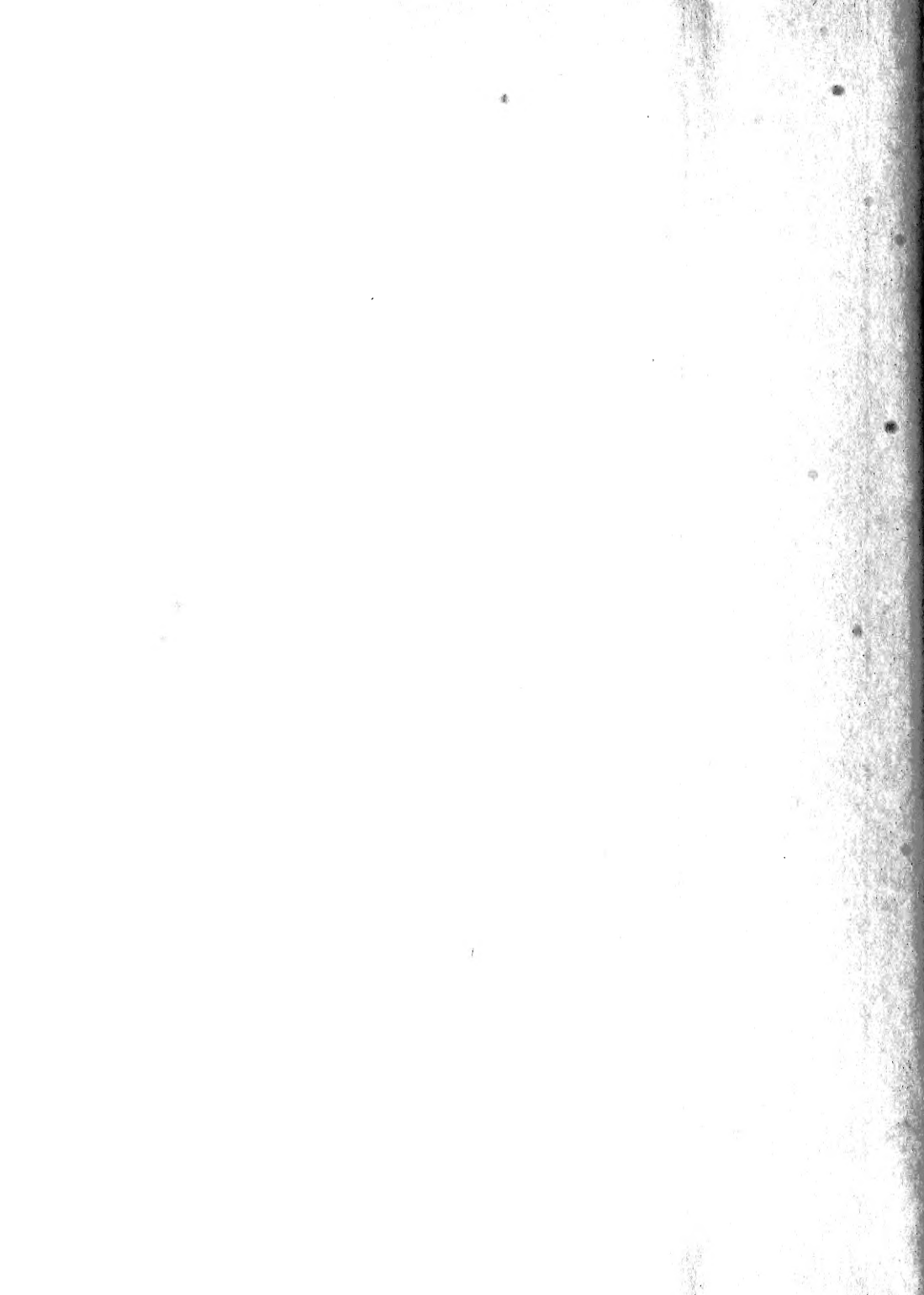
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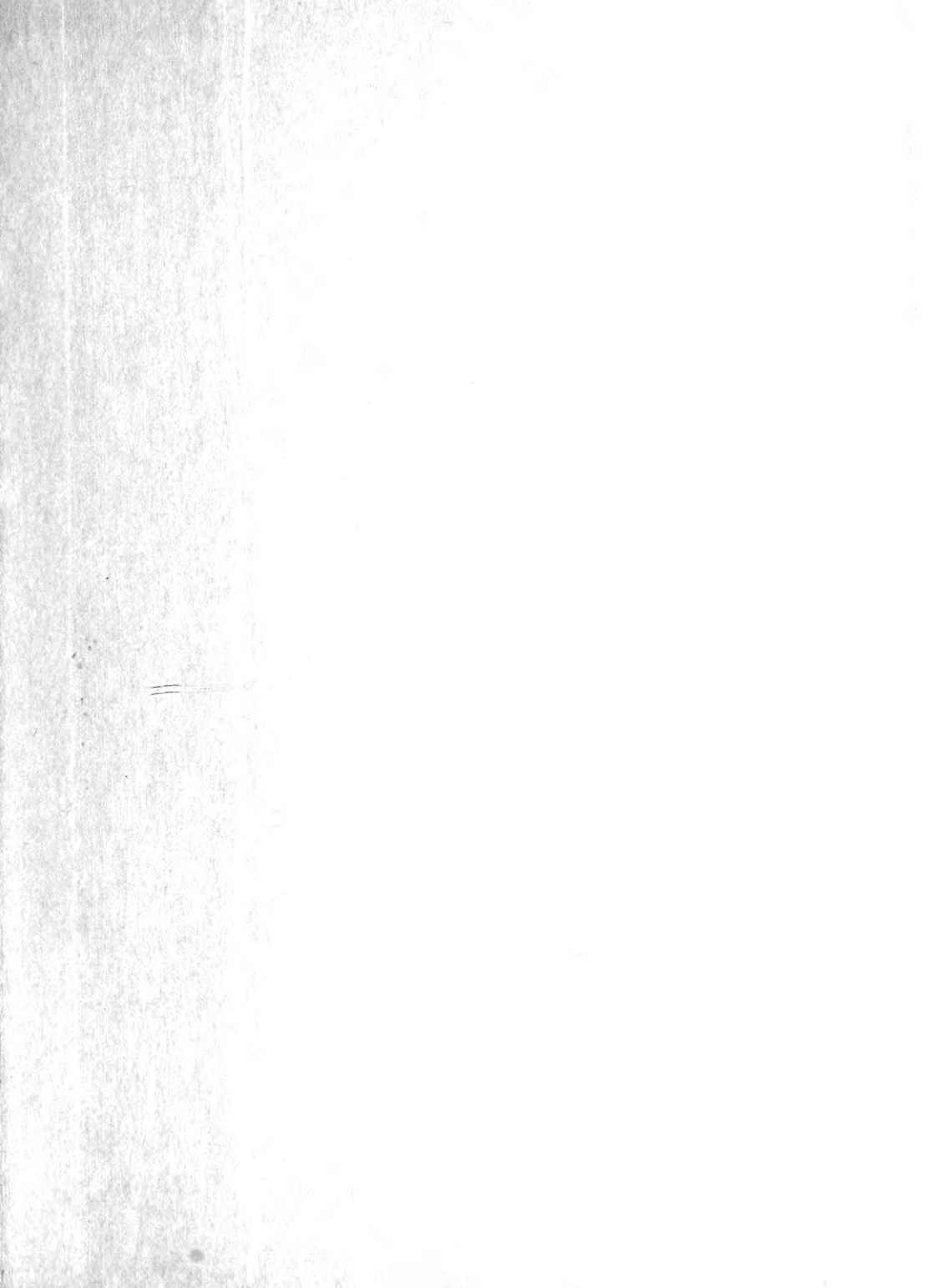
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